

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Fri 10/19/2012 2:49:24 PM
Subject: Re: FW: EPA Confirmatory Testing D4 3.0 TDI CW43: weights + flight dates
carsten.stang@audi.de
www.audi.com
carsten.stang@audi.de
www.audi.com

Thanks, I passed it on to the lab.

BTW, I found this today. Lots of pics of the new Oxnard facility.

<http://www.autoblog.com/2012/10/18/an-inside-look-at-vws-new-california-randd-center/>

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 10/19/2012 07:44 AM
Subject: FW: EPA Confirmatory Testing D4 3.0 TDI CW43: weights + flight dates

Hi Jim,

As a follow up to your request yesterday, please advise if you need additional information for the stop/start instructions (please see the vehicle prep pdf file).

From: Stang, Carsten (N/EA-521)
Sent: Friday, October 19, 2012 5:19 AM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO); Schuetze, Michael (N/EA-521)
Subject: AW: EPA Confirmatory Testing D4 3.0 TDI CW43: weights + flight dates

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The vehicle preparation instructions are more or less the same that we provided with the D4 4.0T in May. As we had no trouble back then these information should be sufficient this time, too.

Please call me in case you have any comments or ideas to improve the instructions.

Thanks and regards,
Carsten

Mit freundlichen Grüßen
Best regards

Carsten Stang
Aggregatezulassung Neckarsulm
Emission Certification

AUDI AG
N/EA-521
D-74148 Neckarsulm
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Von: Giles, Michael (EEO)
Gesendet: Donnerstag, 18. Oktober 2012 22:31
An: Stang, Carsten (N/EA-521)
Cc: Rodgers, William (EEO)
Betreff: RE: EPA Confirmatory Testing D4 3.0 TDI CW43: weights + flight dates

Hi Carsten,

Just to pass along a request from EPA for the A8 testing - Our cert representative asked if you could provide (along
with the usual instructions for testing) the following specific piece of information:

Explanation of operation of stop/start system (including pictures of the dash with examples of stop/start both on

and off shown) so that it is clear to the driver how to use the system, and when it is active / inactive.

See you Monday!

Mike

From: Stang, Carsten (N/EA-521)
Sent: Tuesday, September 25, 2012 8:21 AM
To: Rodgers, William (EEO); Thomas, Richard (EEO)
Cc: Giles, Michael (EEO); Freudenberger, Moritz (N/EA-631)
Subject: EPA Confirmatory Testing D4 3.0 TDI CW43: weights + flight dates

Hello Bill, Hello Richard,

Please find attached the weights that we need to adjust the mass of the D4:

<< File: Gewichte_D3UG-DAQ.pdf >>

Unfortunately it's German but it should be quite easy to understand J

Just in case you're interested in my flight schedule:

<< Message: WG: Reisebestätigung für: STANG /CARSTEN . Abreise 19 Oktober 2012,YZTR7Y >>

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Anyway, can you please send me us access request for Moritz Freudenberger?

I think Moritz Freudenberger will leave on Wednesday or Thursday. I'll fly to LA on Saturday Oct 27th because we have an OBD-meeting on Oct 30th.

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Carsten

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[attachment "Testinfo D3UG_DAQ.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "Vehicle Prep for EPA D3UG-DAQ.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: "Giles, Michael (EEO)" [michael.giles@vw.com]; arsten.stang@audi.de[]
Cc: CN=Ben Haynes/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 10/22/2012 6:11:02 PM
Subject: Re: FW: EPA Confirmatory Testing D4 3.0 TDI CW43: weights + flight dates
carsten.stang@audi.de
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Mike, Carsten, the lab is having trouble fueling the vehicle due to a flapper door blocking the fuel nozzle. it doesn't seem to retract with our nozzle. Any trick to it? Please call me or if I'm not there, call Ben at 214-4261.

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I think we've figured it out. It has to do with fuel nozzle diameters.

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To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 10/25/2012 3:23:43 PM
Subject: Re: Volkswagen Alternate Canister Loading Procedure
[alternate canister loading approval.pdf](#)

Len, The requested alternate canister loading procedure for vehicles with non-integrated refueling systems is essentially the same as that already approved for Hybrid vehicles with non-integrated systems. The procedure has sound engineering basis. Part 86.132-96 (n) allows Administrative approval of this alternative loading method.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 09/27/2012 06:35 PM
Subject: Volkswagen Alternate Canister Loading Procedure

Hello Jim:

Attached is an advance copy of our formal request for approval of the Volkswagen alternate canister loading procedure. This was the subject of our meeting on September 20, 2012. I will also submit an electronic version ASAP.

Thanks again for meeting with us.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

[attachment "Canister Loading Procedure.pdf" deleted by Jim Snyder/AA/USEPA/US]

VOLKSWAGEN

GROUP OF AMERICA

Mr. Jim Snyder
Compliance and Innovation Strategies Division
Office of Mobile Sources
U. S. Environmental Protection Agency
2000 Traverwood Dr.
Ann Arbor, Michigan 48105

Leonard W. Kata Name
Senior Manager Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

September 27, 2012 Date

REVIEWED AND ACCEPTED
DATE 10/25/12 BY J.J.S.

Subject: Request for Use of Alternative Evaporative Canister Loading Procedure

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE 41 248 754 5000

Dear Jim:

On September 20, 2012, representatives from Volkswagen AG and Volkswagen Group of America, Inc., met with you and other EPA staff to request the use of an alternate carbon canister loading procedure. The proposed procedure is patterned after the procedure for off-vehicle charge capable hybrid electric vehicles with non-integrated refuelling canister-only systems, as described in the California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles (amended March 22, 2012).

The request is described in the attached presentation material, which was provided to the agency at the September 20, 2012 meeting. The alternate procedure is intended for use on future model vehicles. This would be limited to conventional and hybrid vehicles that are equipped with non-integrated refueling emission control systems.

Please notify me if further clarification is required. I look forward to your response to this request.

Sincerely,
VOLKSWAGEN GROUP OF AMERICA, INC.



Leonard W. Kata
Senior Manager
Engineering and Environmental Office

Enclosure

To: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Ben Haynes/OU=AA/O=USEPA/C=US@EPA[]; N=Ben Haynes/OU=AA/O=USEPA/C=US@EPA[]
Cc: "Giles, Michael (EEO)" [michael.giles@vw.com]; Rist, Domenic (I/EA-523)" [Domenic.Rist@audi.de]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 10/29/2012 9:08:24 PM
Subject: Re: VW - A5 Schedule

Ben I talked to Domenic and he is looking into the tire issue. regardless of which tires, I want to confirm that we have the correct target ABCs before we do a road load. Mike, the supplemental's tire info needs to be corrected

Also, Domenic will bring a scan tool to look at the oil level tuesday.

Jim Snyder
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Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Fri 11/2/2012 5:46:43 PM
Subject: Re: VW A8 Test

The charger is a reasonable request considering the delay and we've tested the diesels with this fan setup before. Vince and I discussed it and he has already informed the lab.

Jim Snyder
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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA
Cc: "Stang, Carsten (N/EA-521)" <Carsten.Stang@audi.de>, "Rist, Domenic (I/EA-523)" <Domenic.Rist@audi.de>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
Date: 11/02/2012 10:15 AM
Subject: VW A8 Test

Hello Jim and Vince,

Just a couple things related to the A8 tests next week:

- Due to the fact that there is current drain when the vehicle sits with the key (the vehicle and the key "talk to each other") - could you arrange to have a charger connected to the vehicle battery over the weekend? This would be helpful to prevent any complications from a dead battery.
- Just a reminder - we are requesting the use of 2 small fans (FTP/HWY) and 2 large fans for US06, which is the same setup used for the other 3.0L TDI vehicles (Q7 and Touareg). The details are provided in the supplemental information, please advise if there are any concerns.

I plan to confirm the test schedule with you Monday. If all goes as planned I will also be there to see the start of test Tuesday.

Thanks,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
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United States of America
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Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 11/5/2012 7:45:40 PM
Subject: Re: VW Group - Question about current measurement

We use a Hioki 3193 power meter with a clamp on probe for vehicle measurement. For AC recharge energy, there is another Hioki upstream of the charging outlet.

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Date: 11/02/2012 02:03 PM
Subject: VW Group - Question about current measurement

Hi Jim,

Would you be able to tell us what kind of analyzer is used for current measurement for the hybrids? We want to confirm that it is similar to what we use to understand our correlation.

Thanks,
Mike

Michael Giles
Certification Specialist
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Cc: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 11/14/2012 2:32:14 PM
Subject: Re: Jetta Hybrid Testing

The FTP and HWY from the previous EPA tests that were already close.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
Date: 11/14/2012 09:19 AM
Subject: Jetta Hybrid Testing

Hello Jim:

When we spoke yesterday, you stated that EPA is primarily interested in the US06 results when we bring the running change Jetta Hybrid in for confirmatory testing. You also mention (and I am paraphrasing) 'if the FTP and HWY are not good, we could use the data from the previous tests.' I just wanted to clarify which previous tests you are speaking about. Would these be the manufacturer's tests on the new running change vehicle, the EPA tests from the previous emission data vehicle, or something that I haven't thought of?

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

To: "Rodgers, William" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 11/14/2012 9:27:00 PM
Subject: Jetta test date

Bill, we've informed the lab to put the Jetta in the 11/28 slot and the supplemental data was received.
I'm just waiting for Ben to put the date in Verify.

Jim Snyder
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Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: "Schlueter, Hannah (EASZ/1)" [hannah.schlueter@volkswagen.de]; Thomas, Richard (EEO)" [Richard.Thomas@vw.com]; N=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;"Rodgers, William (EEO)" [William.Rodgers@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 11/28/2012 7:23:11 PM
Subject: Re: Hybrid Results
([embedded image](#))

Results are in Verify. According to my quick calculations, we are done.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA
Cc: "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Date: 11/28/2012 01:01 PM
Subject: Hybrid Results

Good afternoon gentlemen,

As you are already aware, we are very interested in the numbers for the Hybrid test. If you are able to reply with the preliminary reports as soon as they become available, it would be greatly appreciated.

Thanks,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 11/28/2012 8:47:59 PM
Subject: RE: Hybrid Results
[VW 2013 jetta hybrid 2nd epa testing.pdf](#)
snyder.jim@epa.gov
michael.giles@vw.com
hannah.schlueter@volkswagen.de
Richard.Thomas@vw.com
William.Rodgers@vw.com
(embedded image)

Jim Snyder
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snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 11/28/2012 02:56 PM
Subject: RE: Hybrid Results

Looking at the table, I am curious, can you tell us if there is a reason to consider only bag 2 below? I think for label they use the weighted number but we were curious about it.

Thanks,
Mike

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, November 28, 2012 2:23 PM
To: Giles, Michael (EEO)
Cc: Schlueter, Hannah (EASZ/1); Thomas, Richard (EEO); Mazaitis.Vincent@epamail.epa.gov; Rodgers, William (EEO)
Subject: Re: Hybrid Results

Results are in Verify. According to my quick calculations, we are done.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency

(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA
Cc: "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Date: 11/28/2012 01:01 PM
Subject: Hybrud Results


Good afternoon gentlemen,


As you are already aware, we are very interested in the numbers for the Hybrid test. If you are able to reply with the preliminary reports as soon as they become available, it would be greatly appreciated.

Thanks,
Mike

Michael Giles
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CERT

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2013-0048-002		Vehicle ID: VW361 730385/13					
Test Date: 11/28/2012		MFR Name: VOLKSWAGEN					
Key Start / Hot Soak: 07:23:27 / 09:36		MFR Codes: 590 VWX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21.04 Fed Fuel 2-day Exhaust (CAN LOAD)		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 007252.0 KM					
Pretest Remarks:		Drive Schedule: ftp4bag					
		Soak Period: 18.4 hours					
Test Information							
							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	5.433	20.285	0.511	0.599	2.392		
Ambient	2.407	0.000	0.014	0.043	1.982		
Net Concentration	3.133	20.285	0.498	0.557	0.499	2.554	
Remarks:							
Phase 2							
Sample	2.629	1.421	0.017	0.194	2.037		
Ambient	2.483	0.000	0.012	0.043	1.986		
Net Concentration	0.182	1.421	0.005	0.152	0.079	0.089	
Remarks:							
Phase 3							
Sample	2.665	2.216	0.041	0.522	2.062		
Ambient	2.491	0.000	0.015	0.043	1.978		
Net Concentration	0.271	2.216	0.026	0.481	0.161	0.083	
Remarks:							
Phase 4							
Sample	2.771	1.249	0.028	0.199	2.049		
Ambient	2.541	0.000	0.018	0.043	1.980		
Net Concentration	0.268	1.249	0.010	0.156	0.099	0.153	
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC / NMOG</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.041	0.534	0.019	230.4	0.008	0.033 / 0.035	38.671
Phase 2	0.004	0.060	0.000	100.4	0.002	0.002 / 0.002	88.983
Phase 3	0.004	0.058	0.001	199.0	0.002	0.001 / 0.001	44.934
Phase 4	0.006	0.053	0.001	103.3	0.002	0.003 / 0.003	86.537
(NMOG=1.04xNMHC)							
Weighted	0.01195	0.15586	0.00459	155.467	0.00336	0.0086 / 0.0089	
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	38.58	Dyno #: D329 - FWD					
Phase 2	88.78	Inertia: 3625					
Phase 3	44.83	EPA Set Co A: 4.73					
Phase 4	86.34	EPA Set Co B: 0.0699					
		<u>1% SOC Limit</u>	<u>Act SOC A-hr</u>	<u>Sys Nom Volts</u>	<u>Charge State</u>	EPA Set Co C: 0.01464	
		0.3935	-0.9878	220.0	Pass		
Weighted	57.49	Emiss-Bench: Mexa 7200sle					
v120518 - d329 EPAVDAEm121128070939							
Page 1 of 2							
Print Time 28-Nov-2012 12:09							

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2013-0048-002				Vehicle ID: VW361 730385/13			
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.162
 Phase 1 Phase 2 Phase 3 Phase 4	0.147	1.915	0.070	826.7	0.027	0.119	
	0.015	0.229	0.001	384.7	0.007	0.007	
	0.013	0.209	0.004	713.4	0.009	0.004	
	0.021	0.201	0.002	396.1	0.009	0.012	
Test Conditions							
		<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>		
Barometer (inHg)		29.29	29.29	29.29	29.30		
Avg Cell Temp (degF)		72.14	72.03	72.36	72.17		
Dew Point (degF)		48.78	49.05	48.89	49.03		
Specific Humidity (grains/lbm)		52.26	52.79	52.46	52.74		
NOx Corr Factor		0.9034	0.9055	0.9042	0.9053		
CO2 Dilution Factor		22.292	68.900	25.653	67.35		
CFV Vmix (scf @68F)		2863.30	4892.46	2865.03	4888.93		
CVS Flow Rate Avg (scfm)		337.32	333.35	337.13	337.13		
Fan Placement: One Fan - Up - Front							
Phase Time (secs)		509.30	870.60	509.91	870.10		
Distance (miles)		3.588	3.830	3.584	3.835		
Bag Analysis Time (secs)		143.8	153.7	143.8	155.6		
MFR Test Results							
for Procedure 21 Federal fuel 2-day exhaust (w/can load)							
<u>MFR Number</u>	<u>HC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	<u>NonMeth HC</u>	
1E+07	0.009	0.15	0.0038	155	0	0.0061	
<u>Odometer</u>	<u>MPG</u>						
7087 K	57.5						
MPG is 0.02 % higher than EPA MPG				MFR Lab: Volkswagen AG, Dept EASZ/1			
				Dyno: 21			
				Fuel: 61 Tier 2 Cert Gasoline			

C2RT

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0048-001

Vehicle ID: VW361 730385/13

Test Information



Test Date: 11/28/2012

MFR Name VOLKSWAGEN

Key Start: 09:48:26

MFR Codes: 590

VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 89 us062bag (us06warmup_2bagus06)

Shift Schedule: A09980041

Calculation Method: Gasoline

Beginning Odometer: 007316.0 KM

Pretest Remarks:

Drive Schedule: us06warmup_2bagus06

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	2.882	0.172	3.479	0.742	2.056	
Ambient	2.465	0.000	0.034	0.046	1.976	
Net Concentration	0.553	0.172	3.447	0.699	0.190	0.332

Remarks:

Phase 2

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	2.550	0.380	0.798	0.705	1.927	
Ambient	2.500	0.000	0.032	0.046	1.974	
Net Concentration	0.182	0.380	0.768	0.661	0.057	0.116

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC / NMOG (gpm)	Vol MPG (mpg)
Phase 1	0.010	0.006	0.184	394.6	0.004	0.006 / 0.006	22.674
Phase 2	0.001	0.006	0.018	163.0	0.001	0.001 / 0.001	54.880
Composite	0.00327	0.00601	0.05450	214.122	0.00126	(NMOG=1.04xNMHC) 0.0020 / 0.0021	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #:
Phase 1	22.62		D329 - FWD
Phase 2	54.75		Inertia: 3625
			EPA Set Co A: 4.73
			EPA Set Co B: 0.0699
			EPA Set Co C: 0.01464
		1% SOC Limit 0.2924	Act SOC A-hr 0.0836
		Sys Nom Volts 220.0	Charge State Pass
Composite	41.71		Emiss-Bench: Mexa 7200sle

v120518 - d329 EPAVDAEm121128092907

Page 1 of 2

Print Time 28-Nov-2012 12:10

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0048-001

Vehicle ID: VW361 730385/13

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.162
Phase 1	0.017	0.011	0.324	696.3	0.007	0.010	
Phase 2	0.009	0.037	0.111	1016.2	0.003	0.006	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.33	29.33		
Avg Cell Temp (degF)	71.62	72.44		
Dew Point (degF)	48.69	48.84		
Specific Humidity (grains/lbm)	51.99	52.29		
NOx Corr Factor	0.9024	0.9036		
CO2 Dilution Factor	18.045	18.999		
CFV Vmix (scf @68F)	1923.90	2965.71		

CVS Flow Rate Avg (scfm) 487.68 487.51

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	130.00	365.00	106.71
Distance (miles)	1.765	6.233	
Bag Analysis Time (secs)	155.6		

MFR Test Results

for Procedure 90 US06

<u>MFR Number</u>	<u>HC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	<u>NonMeth HC</u>
1E+07	0.001	0.018	0.0516	205	0	0.0005

Odometer
7148 K

MPG
43.5

MPG is 4.29 % higher than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

To: "Giles, Michael (EEO)" [michael.giles@vw.com]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]
Cc: "Schlueter, Hannah (EASZ/1)" [hannah.schlueter@volkswagen.de]; Thomas, Richard (EEO)" [Richard.Thomas@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 11/29/2012 4:33:15 PM
Subject: Re: Hybrid Discussion

Yes, The EPA FTP test confirmed the emissions and fuel economy of the Mfr's FTP test. The only issue with the EPA test is the lack of SOC data but we had already confirmed passing SOC from the previous EPA FTP test. Using the Mfr FTP data is acceptable.

The EPA US06 confirmatory test exceeded the MFR's US06 Bag2 (highway portion) FE by 3.02%. Even though it was actually higher than the Mfr FE result, it doesn't confirm it since it is over 3% different. Therefore a retest is in order -or the Mfr can choose to accept the test with the lower result, which is the Mfr's US06 test in this case.

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snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
Date: 11/29/2012 11:02 AM
Subject: Hybrid Discussion

Hi Jim,

We would like to follow up our discussion about the Hybrid. Here are our current thoughts:

- For the FTP test, if the finding is that the EPA test is technically invalid, is it possible to accept the Mfr test? We would accept this in preference to a re-test.
- For the US06 test: After discussion, we have decided to waive the re-test. Therefore, the official FE test is the lower of the confirmatory test and the manufacturer test. We understand this to be based on Hwy portion (Bag 2). The lower Bag 2 result is from the Mfr, therefore this test would be used.
- For the Hwy test, there is no issue.

Let's talk when you get a chance to confirm our thoughts.

Thanks
Mike
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Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 12/4/2012 1:46:16 PM
Subject: RE: Hybrid Discussion

Mike, do you think you can pick up the Jetta today? There is a technology fair in the lab tomorrow and they're trying to clear the lab out.

Jim Snyder
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To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 12/4/2012 2:52:52 PM
Subject: RE: Hybrid Discussion
snyder.jim@epa.gov

great, thanks.

Jim Snyder
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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 12/04/2012 09:45 AM
Subject: RE: Hybrid Discussion

Ok, please release it. I'll confirm about pickup today, I had heard it was in the plan already ...

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Tuesday, December 04, 2012 8:46 AM
To: Giles, Michael (EEO)
Subject: RE: Hybrid Discussion

Mike, do you think you can pick up the Jetta today? There is a technology fair in the lab tomorrow and they're trying to clear the lab out.

Jim Snyder
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snyder.jim@epa.gov

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 12/13/2012 10:39:03 PM
Subject: Re: FW: A8 Security

Hi Mike, I've been looking into this since and conferring with colleagues since don't normally deal with Heavy Duty. I think you are on the right track. I had some comments below. Can you clarify, are you referring to curb, test weight or ALVW in your comments? I assumed curb weight. Is Audi interested in keeping this in the existing test group?

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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
Date: 12/11/2012 04:49 PM
Subject: FW: A8 Security

Hello Jim,

Our Audi factory in Neckarsulm is asking us about the possibility of certifying an armored version of the A8 for the US with the 4.0L V8 engine. They gave us sparse details so far, but the initial question was if it could be included with an existing passenger car test group. The text of the inquiry was as follows:

"... Audi sales is asking for the possibility to bring a A8 armored version to the U.S. They want to use the V8 TFSI in this version. Unfortunately the min weight would be approx. 8047lbs, maximum weight would be 9370lbs. Is there a chance to cover this version with the V8 TFSI test group? We used the worst case variant for FE & emissions (Bentley GT/GTC) already and the max inertia weight class for PC is 5500lbs anyway. However, the A8 armored would be heavier..."

After some checking of the regulations (see for example definitions in 86.1803), our thoughts were as follows:

- There seems to be no specific upper weight limit on classification of vehicles as "LDV", however the definition for HDV states "... any vehicle 8,500# GVWR or > 6,000 curb weight...". Therefore, we believe the vehicle would need to be certified as an HDV, or possibly a MDPV/HDV if the GVWR is less

than 10,000#. It was not clear from the description if we move over into HDV only but it seems possible . I found an unofficial reference to a LDV weight limit of 5750 but haven't found that in the CFR. I don't think that is correct and I'm not convinced the ">6,000 curb weight" applies to LDV either. That said, I think this could qualify as a MDPV if under 10,000# GVW. Otherwise as a HDV if the GVW is over 10,000. Do you know the GVW yet?

- HDV's have the option to be tested on a dyno if < 14,000# GVWR (as opposed to testing engine only which is also an option).
- We believe any HDV or MDPV/HDV would need to be classified in their own test group separate from any LDV's. Whether its a LDV, MDPV or HDV, I don't see anything in the regs preventing you from including it in the existing test group if it met the same LDV Bin level emissions and OBD requirements. It would be a new worst case EDV.
- Any MDPV /HDV fleet emissions would likely need to be included with LDT4 for fleet average NOx, GHG, CAFÉ. Probably, I haven't looked into this much.
- OBD could most likely be based on the existing/similar LDV OBD group. However, the requirements would also be less stringent for the HDV class.

Could you let us know your feedback on our assumptions above, or if you notice anything we may have overlooked at this early stage.

Best Regards,
Mike

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 12/13/2012 11:27:37 PM
Subject: Re: 2014MY Certification Preview

Well I scheduled it but so far all I could get was our room with the round table. Don't wear a heavy sweater that day.

Jim Snyder
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snyder.jim@epa.gov

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 12/13/2012 05:56 PM
Subject: 2014MY Certification Preview

Hi Jim:

The Volkswagen Group 2014MY Certification Preview material should be submitted to EPA tomorrow. If possible, we would like to meet with you to discuss. Would you have any time available early next week? It would be nice to complete this task before the holidays.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

To: "Rodgers, William" [William.Rodgers@vw.com]
Cc: "Kata, Leonard" [Leonard.Kata@vw.com]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 12/17/2012 8:23:59 PM
Subject: Fw: bev and PHEV spreadsheets
[Derived 5cyl EV MPG 06 23 11.xls](#)
[Sample PHEV.xls](#)

Bill, at a previous meeting someone asked if we had a spreadsheet calculator for PHEVs and EVs. Here's what we have. They aren't very polished yet. I think it was Peter or Klaus that asked. Can you forward it to the right person?
Thanks.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 12/17/2012 8:37:23 PM
Subject: RE: bev and PHEV spreadsheets
snyder.jim@epa.gov

Ah, thanks, my notes weren't clear.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 12/17/2012 03:29 PM
Subject: RE: bev and PHEV spreadsheets

Sure. That would have been Richard Thomas and Hannah Schlueter.
Bill

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Monday, December 17, 2012 3:24 PM
To: Rodgers, William (EEO)
Cc: Kata, Leonard (EEO)
Subject: Fw: bev and PHEV spreadsheets

Bill, at a previous meeting someone asked if we had a spreadsheet calculator for PHEVs and EVs. Here's what we have. They aren't very polished yet. I think it was Peter or Klaus that asked. Can you forward it to the right person?
Thanks.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 12/17/2012 8:40:33 PM
Subject: Re: 2012 Final Common Section Extension Request
[2012 Final Common Section req for extension.pdf](#)

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Giles, Michael (EEO)" <michael.giles@vw.com>, "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
Date: 12/17/2012 11:32 AM
Subject: 2012 Final Common Section Extension Request

Hello Jim,
We have uploaded a request for approval letter for your consideration regarding a 90-day extension of our 2012 Final Common Section submission. Please review and provide approval at your earliest convenience.

Regards,
Bill Rodgers
VWGoA EEO
(248) 754-4219

VOLKSWAGEN

GROUP OF AMERICA

Mr. Jim Snyder
Compliance and Innovative Strategies Division
Office of Mobile Sources
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager – Emis. Cert. Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

December 17, 2012 Date

Subject: Request for Extension of Model Year 2012 Volkswagen Group Common Sections Submittal.

Dear Mr. Snyder,

We are requesting an extension of up to 90 days, as allowed by regulation, for the submission of the Volkswagen Group model year 2012 Common Sections. This request is necessary to allow us to add the final sales figures for the 2012 model year. All other model year 2012 applications will be submitted by the December 31, 2012 deadline. We will submit the 2012 Common Sections with as short of a delay as possible.

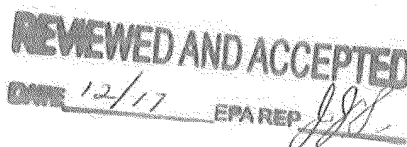
VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

If you have any questions with regard to this request, please contact our office in Auburn Hills at (248)754-4219.

Sincerely,



Leonard W. Kata
Volkswagen Group of America, Inc.



Engineering and Environmental Office

Enclosure(s)

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 12/18/2012 8:37:01 PM
Subject: VW Certification Preview

Len that's fine. Also, we are in the lobby room now so lots of room. I saw the pre-cert letter in Verify and printed it out. Are you bringing hardcopies or sending a revised version? Just wondering whether or not to make copies.

Hi Jim:

As we have mentioned, ARB would like the opportunity to listen in on the VW Certification Preview Meeting. I confirmed this earlier today with Ex. 7, our ARB certification representative. I have set up a call-in number and notified Bill McDuffee.

Just FYI, the number and conference ID are shown below. I would appreciate having a speaker telephone available in the meeting room (I think that this is usually the case).

(P.S. Does the room change mean I can wear a heavier sweater now?)

Best regards,

Len

Join by Phone

Ex. 6

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 12/19/2012 8:13:02 PM
Subject: Re: VW Group - Decision Information Submitted for Beetle Convertible TDI

I submitted it for confirmatory tests.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
Date: 12/19/2012 01:59 PM
Subject: VW Group - Decision Information Submitted for Beetle Convertible TDI

Hello Jim,

Today we submitted vehicle information, test data and decision information for the Beetle Convertible TDI. As a reminder, this vehicle is an FEDV, and is a replacement for a previous vehicle which had a confirmatory test at EPA, but was deemed un-representative due to a mis-fueling event.

If you could, please let me know when you process the decision request. The VERIFY notification emails / broadcasts seem to not be working lately.

Otherwise, I hope you have an enjoyable and relaxing holiday break!

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Manager
Compliance and Innovative Strategies Division
U.S. Environmental Protection Agency
2000 Traverwood
Ann Arbor, Michigan 48105

Leonard W. Kata Name
Manager Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

December 17, 2012 Date

Ex. 7

REVIEWED AND ACCEPTED

DATE

1/2/13

BY

[Signature]

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Subject: Test Group EADXJ03.04UG – SCR / AECD Request for Approval

Dear **Ex. 7**:

Enclosed for your review is the AECD description for certification of the Volkswagen 2014 3.0L TDI Diesel Test Group EADXJ03.04UG. This information is provided in advance of the submission of the application for certification.

The submission includes the following:

- Request for Approval – SCR Guidance Letter Compliance (Attachment 1)
- AECD Description Section for Test Group EADXJ03.04UG (Attachment 2)
 - Includes System Overview for 3.0L V6 TDI engine

The general concept is carried over from the 2013 model year. In general, the SCR request for approval for the 2014 model year 3.0L TDI follows the description in the EPA guidance document CID-07-07. Moreover, system features address concerns raised in discussions with the California Air Resources Board, specific to ; 1.) remedies to address the use of wrong reactant medium, and 2.) remedies for potential repeated tampering with the SCR system.

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 1/9/2013 1:54:44 PM
Subject: Plug-ins

Len, reviewing the pre-cert letter, I see one reference to a plug-in HEV. The Jetta scheduled for mid-year. I know some PHEVs are on hold due to slow demand. Is that the only PHEV coming in 2014MY from VW group? Aside from Porsche that is. I believe they still plan the 918 and Panamera.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 1/22/2013 8:14:27 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

Bob Hart brought this up to me back before he retired. This is with regard to Test Groups right? He talked about it for test groups and certificates but I guess its more relevant for GHG calculations right? I can set up a meeting but I'm wondering who all to invite depending on the scope of this.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: David Good/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/22/2013 02:12 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

I have made one typo FE correction and a couple of calculation errors resulting in unadjusted, unrounded combined CO2 errors affected four of the five error messages. These did not affect any label values for these models, I believe all is good now.

We would like to discuss the Verify manufacturer codes (i.e.: VWX, ADX, BEX) proposed and approved for 2015 by our parent company and regarding the use of a common Volkswagen Group (VGA) code for all brands within the group. Somewhat similar to what the General uses. If you have a moment to discuss, please give me a call so we can set up either a visit or phone discussion and its attendees. I think we would have to get Bob Peavyhouse involved at a minimum.

Thanks,
Richard

From: Good.David@epamail.epa.gov [<mailto:Good.David@epamail.epa.gov>]
Sent: Tuesday, January 22, 2013 12:22 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov
Subject: re: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

Richard,

Our macro picked up a few errors in your 2014 labels. Attached are the data in Verify as of January 17, 2013 for 2014 model year FE labels. Labels with pea green fill in the first few columns contained errors and were not sent to DOE for posting on the web (provided the label release date was Jan 22, 2013 or earlier).

I'll run my next query of the 2014 FE Label data on Feb 1, 2013---for posting on the web a few days later.

Please make any needed corrections when you get a chance.

Thanks

(See attached file: VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx)

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 1/30/2013 9:32:49 PM
Subject: VW wants to use a common mfr code for VW Group

Richard, I left you a voice mail but this is probably better. I reviewed Volkswagen Group's proposal to have a common Mfr code with separate manufacturer names on the VECI labels. I checked with our lawyer regarding the reg language and there's no issue with accepting this. We all think its okay so I don't think we need a meeting to discuss this.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 1/31/2013 9:43:19 PM
Subject: RE: VW wants to use a common mfr code for VW Group
snyder.jim@epa.gov

I talked to Bob beforehand and supported it. I think he looks forward to this simplifying calculations. I'll ask him if there is anything else needed to be done.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 01/31/2013 09:06 AM
Subject: RE: VW wants to use a common mfr code for VW Group

Hi Jim;

Thanks for the note and voice mail. Can you track down Bob Peavyhouse sometime and ask if he will be able to handle the changes and what, if anything, we (the EEO) can do to assist. If you could explain that this scenario was approved by the upper management of the Volkswagen Group and now we need to make the modifications because the factory is beginning to create Group test groups names. They will use the new Group code "VGA" for 2015 model year. The brands under this new code would be; ADX, VWX, BEX, NLX and BGT for Audi, Volkswagen, Bentley, Lamborghini and Bugatti respectively.

Thanks,
Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 30, 2013 4:33 PM
To: Thomas, Richard (EEO)
Subject: VW wants to use a common mfr code for VW Group

Richard, I left you a voice mail but this is probably better. I reviewed Volkswagen Group's proposal to have a common Mfr code with separate manufacturer names on the VECI labels. I checked with our lawyer regarding the reg language and there's no issue with accepting this. We all think its okay so I don't think we need a meeting to discuss this.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 10:22:11 PM
Subject: Re: VW/EPA Certification Meeting October 29, 2012

I'll look it over.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, David Good/AA/USEPA/US@EPA, Chris Nevers/AA/USEPA/US@EPA
Date: 02/06/2013 12:00 AM
Subject: VW/EPA Certification Meeting October 29, 2012

Hello Jim, Dave, and Chris:

I know that some time has passed since we met in October 2012, but I would appreciate it if you would take a look at the meeting report and provide any comments or feedback. Other EPA staff participated as well and may wish to contribute their comments.

I have attached all of the slides from our meeting, for ready reference. The report is the last attachment. Please let me know if this should go into VERIFY.

Since the report indicates some follow-up on the part of VW and EPA, we would appreciate an opportunity to have a telephone conference/webinar to discuss the open points.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com
[attachment "00_Agenda_EPA_Cert-Test.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment

"01_Start_Stop_Survey.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "02_FFV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "03_AWC.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "04_BEV_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "05_BEVx_2012_EPA.ppt" deleted by Jim Snyder/AA/USEPA/US] [attachment "06_SAE_1634_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "07_PHEV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "08_Energy_assist_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "VW EPA Cert Meeting Oct 29,2012.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: "Rodgers, William" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 2/12/2013 8:51:14 PM
Subject: Re: VW Group - New Approved User

Bill, Can you mail the form to me? They are very particular about this being a real copy not a scan.

Make sure its addressed to me.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Verify
To: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Cc: Jim Snyder/AA/USEPA/US@EPA, Verify@EPA
Date: 02/12/2013 08:40 AM
Subject: Re: VW Group - New Approved User
Sent by: Pete Petersen

I assume you have mailed these forms to the Verify Team address? I am not allowed to accept electronic copies.

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Verify@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/11/2013 03:09 PM
Subject: VW Group - New Approved User

Hello,
Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system and manufacturer codes VWX, ADX and BEX. We have also include a complete User information spreadsheet for the entire Volkswagen Group. Please notify me when this new user is set up and able to access the system.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

[attachment "Tobias Glas-esa.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "user-info-20130211.xls" deleted by Jim Snyder/AA/USEPA/US]

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 2/13/2013 8:08:43 PM
Subject: Re: Revised 2014 Cert Preview Attachment

Thanks Bill, this is much clearer to follow than the other chart.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 02/13/2013 09:08 AM
Subject: Revised 2014 Cert Preview Attachment

Hi Jim,
Attached is the updated chart we discussed for 2014MY.

Bill Rodgers
VWGoA EEO
(248) 754-4219
[attachment "MY 2014 TEST GROUPS ATTACHMENT A EEO 02062013 REVISION.xlsx" deleted by Jim Snyder/AA/USEPA/US]

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 2/14/2013 2:45:07 PM
Subject: Re: FW: VW Group - New Approved User
Tobias.Glas@vw.com
Petersen.Pete@epamail.epa.gov
mailto:Petersen.Pete@epamail.epa.gov
Verify@epa.gov
Snyder.Jim@epamail.epa.gov
Verify@epa.gov
William.Rodgers@vw.com
william.rodgers@vw.com
(embedded image)

I talked to Christi and if she said this is a Verify help desk issue. They should be able to straighten it out.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Glas, Tobias" <Tobias.Glas@vw.com>
Date: 02/14/2013 08:38 AM
Subject: FW: VW Group - New Approved User

Jim,
Perhaps we need to submit a new form for VW? or can you adjust the user name we requested so it works with the system.

Requested user name:

Ex. 6

Proposed change:

Ex. 6

Regards,

Bill Rodgers
VWGoA EEO
(248) 754-4219

From: Glas, Tobias
Sent: Thursday, February 14, 2013 7:49 AM
To: Rodgers, William (EEO); Petersen.Pete@epamail.epa.gov
Subject: RE: VW Group - New Approved User

Hello !

I tried to activate my Verify VW user yesterday and couldn't process it because my username only has 7 digits.

Please advise how to solve that issue.

Thank you very much !

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 7:31 AM
To: Glas, Tobias
Subject: FW: VW Group - New Approved User

From: Petersen.Pete@epamail.epa.gov [mailto:Petersen.Pete@epamail.epa.gov] On Behalf Of Verify@epa.gov
Sent: Tuesday, February 12, 2013 8:40 AM
To: Rodgers, William (EEO)
Cc: Snyder.Jim@epamail.epa.gov; Verify@epa.gov
Subject: Re: VW Group - New Approved User

I assume you have mailed these forms to the Verify Team address? I am not allowed to accept electronic copies.

"Rodgers, William (EEO)" ---02/11/2013 03:09:31 PM---Hello, Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system a

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Verify@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/11/2013 03:09 PM
Subject: VW Group - New Approved User

Hello,
Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system and manufacturer codes VWX, ADX and BEX. We have also include a complete User information spreadsheet for the entire Volkswagen Group. Please notify me when this new user is set up and able to access the system.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com
(See attached file: Tobias Glas-esa.pdf)(See attached file: user-info-20130211.xls)

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 2/14/2013 8:38:59 PM
Subject: RE: Test waiver VID VW324 30111/1

Sorry, I haven't been at my desk at all today. I waived both yesterday but I don't think it finalized the second one.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 02/14/2013 03:11 PM
Subject: RE: Test waiver VID VW324 30111/1

Got it thanks

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 1:18 PM
To: 'Jim Snyder' (Snyder.Jim@epamail.epa.gov)
Subject: Test waiver VID VW324 30111/1

Hi Jim,
I wasn't able to catch you at your desk. We received the following confirmatory test waiver but are wondering if you missed Configuration-1 (Beetle coupe), or are you planning to test it?

Testing Waived: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Thanks,
Bill Rodgers
VWGoA EEO
(248) 754-4219

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 3/7/2011 2:46:09 PM
Subject: RE: Notification of a new in-use surveillance test class P120

Hi, Sebastian.

We will let you know the week before we recruit the vehicle and you will also receive a call from URS to set up a time to observe the maintenance.

Take care,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/07/2011 09:32 AM
Subject: RE: Notification of a new in-use surveillance test class P120

Hello Lynn,

Thank you very much for the information about the surveillance program.

Please let me know when the first car comes in. I would like to be at your lab when the car will be inspected.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, March 02, 2011 3:26 PM

To: Berenz, Sebastian

Subject: Notification of a new in-use surveillance test class P120

Hi, Sebastian.

Here is a .pdf copy of the signed letter.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: NOTIF-P-120-Volkswagen.pdf)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/02/2011 03:24 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 03/02/2011 03:19 PM

Subject: Notification of a new in-use surveillance test class

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Hennard, Mike" [mike.hennard@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 5/13/2011 7:46:57 PM
Subject: Re: EPA Questions - Secondary Air Pump replacements
mike.hennard@vw.com

Thanks, Mike.

I'll pass the info along.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 05/13/2011 03:23 PM
Subject: EPA Questions - Secondary Air Pump replacements

Lynn:

During our meeting this last week, EPA staff had requested additional data from EPA Report – 2011/04/27 regarding MY 2007 and 2008 secondary air pumps assembled on VW New Beetle model vehicles.

EPA Request / VWGoA Response :

Number and percentage of population replaced secondary air pump)?

MY2007= 1007 warranty claims at 1.07% of vehicle population
MY 2008=1279 claims at 1.62% of vehicle population

Average price per claim (replace secondary air pump?

\$400.00

I hope this answers your earlier questions.

Michael Hennard
Manager - Emissions Compliance EEO

Volkswagen Group of America

3800 Hamlin Road
Auburn Hills, MI 48326

Telephone Number: 248 754 4202
Fax: 248 754 4207
mike.hennard@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 5/23/2011 9:14:36 PM
Subject: RE: Class P156

Hi, Sebastian.

The should be in the week ending July 8.

Take care!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 05/23/2011 05:10 PM
Subject: RE: Class P156

Hello Lynn,

Thank you very much for that information.

Let us know whenever we will get the first cars to inspect.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, May 23, 2011 5:07 PM

To: Berenz, Sebastian

Subject: Class P156

Hi, Sebasitan.

I am sending you a copy of this letter that I just sent to Dennis. The test group that I'd originally selected has been changed to a different test group. I apologize for any inconvenience this may have caused.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: NOTIF-P-156-Volkswagen.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 2/13/2012 9:45:29 PM
Subject: RE: Test data for in-use vehicle R104-0049

Hello Lynn,

Thank you very much.

I checked the values and the test looks pretty good to me. It passed the federal and California standards.

Let me know if you have any questions.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, February 13, 2012 4:18 PM
To: Berenz, Sebastian
Subject: Test data for in-use vehicle R104-0049

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: R104RXX-0049.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Fri 2/17/2012 2:01:07 PM
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hi Lynn,

Just a quick follow up to check status of this and make sure you have what you need. If you have further questions please let me know.

Thanks,
Mike

-----Original Message-----

From: Giles, Michael
Sent: Wednesday, February 01, 2012 4:35 PM
To: 'Lynn Sohacki'
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

As we discussed, please find attached a revised submission for our Non-Integrated ORVR for the MY 2013 Jetta Hybrid. I hope this revision answers your questions.

This revised document was submitted to VERIFY today.

Please contact me if you have further questions.

Regards,
Mike

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 13, 2012 3:55 PM
To: Giles, Michael
Subject: Re: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Dear Mr. Giles,

Thank you for the ORVR application below. I have a few questions before I forward the application to my team members: there are several references to Bugatti in the application. Is this family identical to a Bugatti family? Items 3 and 4 specifically mention Bugatti. What is the connection with Bugatti and this VW evap family?

Thanks for your answers.

Lynn Sohacki
Environmental Protection Agency
734-214-4851

734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/09/2012 08:13 AM
Subject: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

I was asked by my colleague (Bob Hart) to send you copies of our ORVR submissions. The attachment was recently submitted to Jim Snyder through Verify.

Please call me if you have any questions about this.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

[attachment "CBI_DVWXR0110PHE_RFA_ORV_R00.PDF" deleted by Lynn Sohacki/AA/USEPA/US]

To: sebastian.berenz@vw.com[]
Cc: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US@EPA;CN=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA[]; N=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US
Sent: Tue 2/21/2012 2:25:10 PM
Subject: R104RXX-0077
[R104RXX-0077_2-15-12.pdf](#)

Hello Sebastian,

Please find enclosed the Laboratory Test Data for the Subject vehicle. If you have any questions, please contact me.

R104RXX-0061 is to test tomorrow, 2-22-12. The lab is performing the Road load Derivation and prep today.


Good to see you and Brian this morning!

Thanks, and best regards,

Vince Mazaitis

CISD

FILE

NVFEL Laboratory Test Data								CVS
These Laboratory Test Results Are Not Final								
Test Number: 2012-0104-002		Vehicle ID: R104RXX-0077						
	Test Date: 2/15/2012		MFR Name: AUDI					
	Key Start / Hot Soak: 09:03:30 / 09:51		MFR Codes: 640 ADX					
	Fuel Container ID: F00023		Config #: 00					
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: MANUAL					
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp		Shift Schedule: A09980004					
	Calculation Method: Gasoline		Beginning Odometer: 034495.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag Soak Period: 20.1 hours						
Quality Control: This data meets all automated quality control checks. No problems were identified.								
Bag Data		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1								
Sample		53.123	20.104	2.517	1.109	2.849		
Ambient		2.479	0.000	0.014	0.044	2.022		
Net Concentration		50.850	20.104	2.504	1.069	0.996	49.670	
Remarks:								
Phase 2								
Sample		2.465	0.072	0.356	0.769	1.917		
Ambient		2.499	0.000	0.011	0.044	2.019		
Net Concentration		0.109	0.072	0.346	0.728	0.013	0.093	
Remarks:								
Phase 3								
Sample		10.301	6.702	0.874	0.946	2.157		
Ambient		2.501	0.000	0.011	0.045	2.012		
Net Concentration		7.977	6.702	0.864	0.905	0.288	7.637	
Remarks:								
Phase 4								
Sample								
Ambient								
Net Concentration								
Remarks:								
Results		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1		0.659	0.526	0.097	439.4	0.015	0.643	20.178
Phase 2		0.002	0.003	0.021	474.4	0.000	0.002	18.815
Phase 3		0.102	0.174	0.033	368.5	0.004	0.098	24.178
Weighted		0.16565	0.15818	0.04030	437.998	0.00443	0.16111	
Fuel Economy		<u>Gasoline MPG</u>				<u>Dyno Settings</u>		
Phase 1		20.13				Dyno #: D329 - AWD		
Phase 2		18.77				Inertia: 3875		
Phase 3		24.12				EPA Set Co A: 7.28		
						EPA Set Co B: -0.2736		
						EPA Set Co C: 0.02029		
Weighted		20.29				Emiss-Bench: Mexa 7200sle		

NVFEL Laboratory Test Data

CVS

These Laboratory Test Results Are Not Final

Test Number: 2012-0104-002

Vehicle ID: R104RXX-0077

Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.185
Phase 1	2.353	1.878	0.347	1569.8	0.053	2.298	
Phase 2	0.009	0.012	0.082	1826.6	0.001	0.007	
Phase 3	0.368	0.625	0.120	1325.9	0.015	0.353	



Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.21	29.21	29.22	
Avg Cell Temp (degF)	76.07	74.86	75.05	
Dew Point (degF)	49.05	48.78	48.68	
Specific Humidity (grains/lbm)	52.93	52.39	52.17	
NOx Corr Factor	0.9060	0.9039	0.9031	
CO2 Dilution Factor	12.000	17.416	14.138	
CFV Vmix (scf @68F)	2833.46	4843.73	2828.55	
CVS Flow Rate Avg (scfm)	335.25	334.09	334.48	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.11	869.90	507.40	
Distance (miles)	3.573	3.851	3.598	
Bag Analysis Time (secs)	879.4	1115.4	162.0	

Data Quality Flags:

This data meets all automated quality control checks. No problems were identified.

Msg 000 01 This Module Passed automated quality checks.

NVFEL Laboratory Test Data

CVS

These Laboratory Test Results Are Not Final

Test Number: 2012-0104-003

Vehicle ID: R104RXX-0077

Test Information



Test Date: 2/15/2012

Key Start: 10:19:41

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: MANUAL

Shift Schedule: A09980010

Beginning Odometer: 034506.0 MI

Drive Schedule: hwfet_hwfet

Quality Control:

This data meets all automated quality control checks. No problems were identified.

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	4.390	17.124	0.303	1.152	2.160	
Ambient	2.493	0.000	0.009	0.046	1.990	
Net Concentration	2.111	17.124	0.295	1.111	0.341	1.707

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.014	0.234	0.006	238.2	0.003	0.012	37.397

Fuel Economy

Gasoline MPG

Phase 1 37.31

Dyno Settings

Dyno #: D329 - AWD

Inertia: 3875

EPA Set Co A: 7.28

EPA Set Co B: -0.2736

EPA Set Co C: 0.02029

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

These Laboratory Test Results Are Not Final

Test Number: 2012-0104-003

Vehicle ID: R104RXX-0077

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.146	2.388	0.061	2433.5	0.027	0.118	1.185

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.22			
Avg Cell Temp (degF)	74.99			
Dew Point (degF)	48.73			
Specific Humidity (grains/lbm)	52.29			
NOx Corr Factor	0.9036			
CO2 Dilution Factor	11.608			
CFV Vmix (scf @68F)	4229.26			
CVS Flow Rate Avg (scfm)	331.66			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.11			
Distance (miles)	10.214			
Bag Analysis Time (secs)	145.9			

Data Quality Flags:

This data meets all automated quality control checks. No problems were identified.

Msg 000 01 This Module Passed automated quality checks.

To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA; Vincent Mazaitis/AA/USEPA/US@EPA[]; Bernd Liebner/AA/USEPA/US@EPA; Vincent Mazaitis/AA/USEPA/US@EPA[]; Vincent Mazaitis/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Berenz, Sebastian"
Sent: Tue 2/21/2012 7:36:16 PM
Subject: EPA Surveillance Program 9AD XV03.23LC - 3.2l AVS MY 2009
[20120220134011240.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

hello Bernd,

hello Vince,

I just wanted to let you know that we took care of the label issue you found on the test vehicles of EPA's Surveillance Program 9AD XV03.23LC - 3.2l AVS MY 2009.

Attached you will find the official defect report we submitted through Verify.

We went through all of our emission labels for MY2009 and also found a second incorrect label, which we will correct with the same program.

The next step is that we will contact the customers and call the vehicles in to our dealer to make sure that the label will be attached to the vehicles instead of sending out the label to the customer without knowing if it will end up on the car.

So that issue will be solved soon.

Also today we inspected together with Vince the vehicle that failed NMOG in the FTP.

- R104RXX-0077 (2009/A5) – VIN# Ex. 6
- Audi A5 Quattro manual

We really couldn't find anything obvious when we looked at it. There was no active fault code, only one from a month ago.

Since we do not really know what caused the problem, we would be interested in analyzing the vehicle.

Is there a chance to get the customer data from you?

For tomorrow we scheduled a meeting which I have to cancel. I am very sorry for that, but I will try to call Lynn tomorrow morning to go through all of that.

I believe we have everything so far and have to wait to see what the last vehicle looks like.

Please let me know if you have any questions.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

VOLKSWAGEN

GROUP OF AMERICA

EDIR / VERR Coordinator
Vehicle Program Group
Compliance and Innovation Strategies Division
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Christoph Kohnen	Name
Director	Title
EEO	Department
248-754-4201	Phone
248-754-4207	Fax
christoph.kohnen@vw.com	E-Mail

February 20, 2012 Date

Subject: Emissions Defect Information Report
Reference: EPA Report 0014 / MRN: AD-02-20-2012-1

Dear Sir,

Volkswagen Group of America, Inc. hereby submits an Emissions Defect Information Report in accordance with 40 CFR 85.1903.

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

1) The Manufacturer's Corporate Name:

Manufacturer:	Audi AG
Importer:	Volkswagen Group of America, Inc.

Volkswagen Group of America does not, by the filing of this report, admit the existence of a defect subject to the production warranty provided by section 207 (a) of the Clean Air Act, as amended.

I certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that this document and its attachments were prepared either by me personally or under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gather and present the information contained therein. I further certify, based on my personal knowledge or on my inquiry of those individuals immediately responsible for obtaining the information, that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowingly and willfully submitting a materially false statement.

Volkswagen Group of America, Inc. ("VWGoA") respectfully requests that this forwarding letter be considered confidential. The contact information contained within, if released to outside sources, would interfere with the privacy and daily responsibilities of the author.

Should you have any questions or comments regarding the subject Emissions Defect Information Report, please contact Michael Hennard of my staff at (248) 754 4202.


Christoph Kohnen
Engineering and Environmental Office

Emissions Defect Information Report (EDIR)

* = required field

Report / Manufacturer Information

☒ New EDIR ☐ Correct / Update EDIR *

Manufacturers must submit EDIRs within 15 working days after an emission-related defect is found.

EPA EDIR Number *

Manufacturer EDIR Number *

Form Version Number *

Additional email address

Defect Information

Problem category *

Crankcase Ventilation Component/System
Diesel Particulate Filter System
Electrical, Mechanical and Cooling Systems
Emission Control Information Label
Exhaust Gas Recirculation (EGR) System

Defect description *

Emissions Control Information label has incorrect test group configuration.
Test Group 1:
- Correct Test Group: 9AD XV03.23LC
- Text Group on label installed in production: 9AD XT03.23LC
Test Group 2:
- Correct Test Group: 9AD XV03.1374
- Text Group on label installed in production: 9AD XT03.1374

Defect identification source / method *
(CTRL + Click to select multiple value(s))

Investigation based on warranty claims
In-Use Testing (According to CAP 2000)
Investigation based on customer feedback
Manufacturer Internal Testing
Manufacturer Technical/Data Analysis

Address(es) of plants *

Audi AG
85045 Ingolstadt
Germany

Evaluation of the emissions impact when the vehicle / engine exhibits the defect *

Not applicable

Are there any available emissions data that relates to the defect? * ☐ Yes ☒ No

Emissions Defect Information Report (EDIR)

* = required field

Does the defect cause or result in On-Board Diagnostic Malfunction Indicator Lamp illumination? * ☐ Yes ☒ No

Describe any drivability
problems which a defective
vehicle/engine would exhibit *

Not applicable

Description of anticipated
manufacturer follow up *

Production: Vehicle no longer in production

Service: Replace all involved labels via Service Action with customer notification.

Type of related documents to be submitted to the Verify Document Module *
(CTRL + Click to select multiple value(s))

No Related Documents to Submit
Available Emissions Data
Repair Instructions
Technical Service Bulletin
Other (Specify in 'Notes' field)

Number of related documents to be submitted to Verify Document Module *

1

Notes

CBI Document - Forwarding Letter

Emissions Defect Information Report (EDIR) Affected Vehicles / Engines Description

* = required field

Add Test Group / Engine Family

Test Group / Engine Family Information					Delete Test Group / Engine Family
Test Group / Engine Family *	Certified Sales Area *	Total Production Volume Count *	Potential Number Affected *	Actual Number Identified *	
9AD XV03.23LC	50-State (CA+177 States+FED)	9,023	9,023	3	
Add Vehicle / Engine					
Vehicle / Engine Information					
Make *	Model / Calibration *	Model Year *	Displacement (Liters) *		
Audi	Audi A4 Quattro / Audi A5 Quattro	2009	3.2		Delete This Vehicle / Engine

Test Group / Engine Family Information					Delete Test Group / Engine Family
Test Group / Engine Family *	Certified Sales Area *	Total Production Volume Count *	Potential Number Affected *	Actual Number Identified *	
9AD XV03.1374	50-State (CA+177 States+FED)	779	779	1	
Add Vehicle / Engine					
Vehicle / Engine Information					
Make *	Model / Calibration *	Model Year *	Displacement (Liters) *		
Audi	Audi A6 / Audi A4 Cabrio Quattro	2009	3.1		Delete This Vehicle / Engine

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 2/24/2012 8:00:15 PM
Subject: Automatic reply: Test data for in-use vehicle R104-0061 and R104-0077
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Currently I am out of office until March 8th. Respond times to mails may increase.

- For all IUVP questions, please contact Mr. Garrett Horton 248-754-4231
- For all Screening related issues, please contact Mr. Thomas Styczynski.

I will be in contact with Garrett on a regular basis, so please inform him of any issues or concerns.

In urgent cases please call my cell under 248 736 3487.

Thank you.

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Sun 2/26/2012 7:37:39 PM
Subject: RE: Test data for in-use vehicle R104-0061 and R104-0077

Hello Lynn,

Thank you very much for the information.

Looks like we have on the last test result again too high NMOG results.
We would like to take a look at the vehicle like we did with the other one.

Please let me know if this would be possible.

I will call you on Monday to discuss the next steps.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, February 24, 2012 2:58 PM
To: Berenz, Sebastian
Subject: Test data for in-use vehicle R104-0061 and R104-0077

Hi, Sebastian.

The data for the above vehicles is attached. Also, I got approval from the privacy office to contact the owners of the vehicle and ask if I can give you their contact information. I will be calling them Monday.

Please give me a call if you have any questions.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: R104RXX-0061.pdf)(See attached file:
R104RXX-0049.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Tue 3/6/2012 5:44:29 PM
Subject: VW Group - Jetta 1.4L ORVR Revision
atm1_MY2013_JettaHybrid_sys-overview_6.pdf

Hello Lynn,

Please find attached a revised document with improved diagrams to describe the Jetta Hybrid ORVR system.

In addition, I have attached answers to some of the questions we discussed. If you have any further questions, please let me know. If needed I can try set up a conference call to resolve any details.

Regards,

Mike

Q1 Page 2, Filling Ventilation:

- a) Arrow direction seems wrong in the connection between DMTL to canister. (corrected in new file)
- b) Please clarify in drawing. (corrected in new file)

Q2 If engine is off, there are arrows from Canister and fuel tank to the engine – please confirm / clarify if these connections are present (open) during the fill. (corrected in new file)

Q3: Operation Ventilation Diagram (pg 3)

- a) Shows fuel into tank during this phase, which is incorrect. (corrected in new file)

Q4: EPA Requests some specifics details about the Regeneration Phase

- a) Is the engine on/off during this phase? On!
- b) Does the tank de-pressurization occur during this step, or somewhere other step? Yes!
- c) What is vapor path during de-pressurization? (When the red/black broken line is red)
- d) When does de-pressurization occur (if not in this step)? No, look at c)
- e) Please update diagram for example shows gasoline going into the tank should be removed(corrected in new file)
- f) A detailed text description of the regeneration the would help, with some details of when it occurs, engine on or off or both, what causes it (button push?), etc. (corrected in new file)

Q5: Please describe all situations where DMTL would have reverse flow, and add this to diagrams

Only in case of refueling, preparation for refueling and after diagnostic a reverse flow over DMTL would be activ.

Q6: For the diagrams, please describe the yellow, black and mixed lines in the keys (for example in Regeneration, the line between FTIR and Carbon canister).(add for the broken line in new file)

Michael Giles

Certification Specialist

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone +1-248-754-4229

FAX +1-248-754-4207

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 3/8/2012 3:25:08 PM
Subject: RE: R104RXX-0077 (2009 Audi/A5)

Hello Lynn,

Sorry to get back to you so late.

Thank you very much for the contact data. We will contact both customers as soon as possible and send the vehicles to our test facility in California.
I will keep you updated on our analysis.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 29, 2012 10:00 AM
To: Berenz, Sebastian
Subject: Fw: R104RXX-0077 (2009 Audi/A5)

Hi, Sebastian.

I got a call from Ex. 6 this morning. He is very enthusiastic about having Audi test his vehicle. He will be going to Germany this summer and wants to make sure that the car is running as it should.

He asked for your phone number because he is interested in starting this process as soon as possible. He also asked for me to forward his e-mail to you: Ex. 6

Please let me know if you'd like me to forward your number to him.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 02/29/2012 09:55 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: Sebastian.Berenz@vw.com
Date: 02/28/2012 04:20 PM
Subject: Fw: R104RXX-0077 (2009 Audi/A5)

Hi, Sebastian.

The owner's name for the above vehicle is Ex. 6 and his phone number is Ex. 6. He can be reached between the hours of 08:00-18:00.

I will be contacting the other owner shortly.

Regards.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Thur 3/15/2012 5:08:09 PM
Subject: RE: VW Group - Jetta 1.4L ORVR Revision
attn1 MY2013 JettaHybrid sys-overview 7.pdf

Hello Lynn,

Pleased find attached the latest revision of this request, which I believe will answer your questions. We concur with your comments below (see report for additional and corrected details). Please let me know if there are any others areas which are not clear. If all is good, we would appreciate your review / approval at your earliest convenience.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, March 08, 2012 3:21 PM
To: Giles, Michael
Subject: Re: VW Group - Jetta 1.4L ORVR Revision

Hi, Michael.

Thank you for the new illustrations. They were very helpful. As I understand the operation, the "Regeneration" stage is actually the purge phase where vapors get drawn by vacuum through the canister and into the engine. Air is drawn through the DMTL to take the place of the vapors.

It also helps to know that, for the most part the FTIV is closed except in the case of refueling, for diagnostic purposes or in the event of critical pressure in the fuel tank. With that understanding, however, I wonder whether the same section of vent line shown as hashed in the "Regeneration" figure should also be hashed in the "Operation Mode" figure. I think the same conditions would apply.

In the answer to Q4, b) in your e-mail, you asked whether tank de-pressurization occurs during the Regeneration phase. The answer is "Yes!" but this contradicts the description of the regeneration phase. According to the write-up, depressurization takes part during the "Filling Ventilation" phase. Is this

correct?

In none of the diagrams is gasoline shown entering the fuel tank. I would suggest adding an arrow indicating fuel going into the fuel tank in the "Filling Ventilation" figure.

Let me know if you have any questions, Michael.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/06/2012 12:44 PM
Subject: VW Group - Jetta 1.4L ORVR Revision

Hello Lynn,

Please find attached a revised document with improved diagrams to describe the Jetta Hybrid ORVR system.

In addition, I have attached answers to some of the questions we discussed. If you have any further questions, please let me know. If needed I can try set up a conference call to resolve any details.

Regards,
Mike

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- a) Is the engine on/off during this phase? On!
- b) Does the tank de-pressurization occur during this step,

or somewhere other step? Yes!

c) What is vapor path during de-pressurization? (When the red/black broken line is red)

d) When does de-pressurization occur (if not in this step)? No, look at c)

e) Please update diagram for example shows gasoline going into the tank should be removed (corrected in new file)

f) A detailed text description of the regeneration the would help, with some details of when it occurs, engine on or off or both, what causes it (button push?), etc. (corrected in new file)

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Q6: For the diagrams, please describe the yellow, black and mixed lines in the keys (for example in Regeneration, the line between FTIR and Carbon canister). (add for the broken line in new file)

Michael Giles
Certification Specialist
Engineering and Environmental Office
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3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
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Description and Schematic of the Jetta Hybrid 1.4I ORVR System Model Year 2013

The fuel tank system is designed to load the canister with hydrocarbons only when refueling and is therefore a **non-integrated ORVR-System**.

The Fuel Tank Isolation Valve (FTIV) is opened only in case of refueling, for diagnostic purposes and in case of the fuel tank pressure reaching a critical threshold. During soak the tank is sealed and therefore no vapor can escape to ambient.

For safety purposes and to avoid damage to the system during soak time, the FTIV is equipped with mechanical bypass valves, which open below -100 mbar or over +300 mbar difference between fuel tank and ambient pressure.

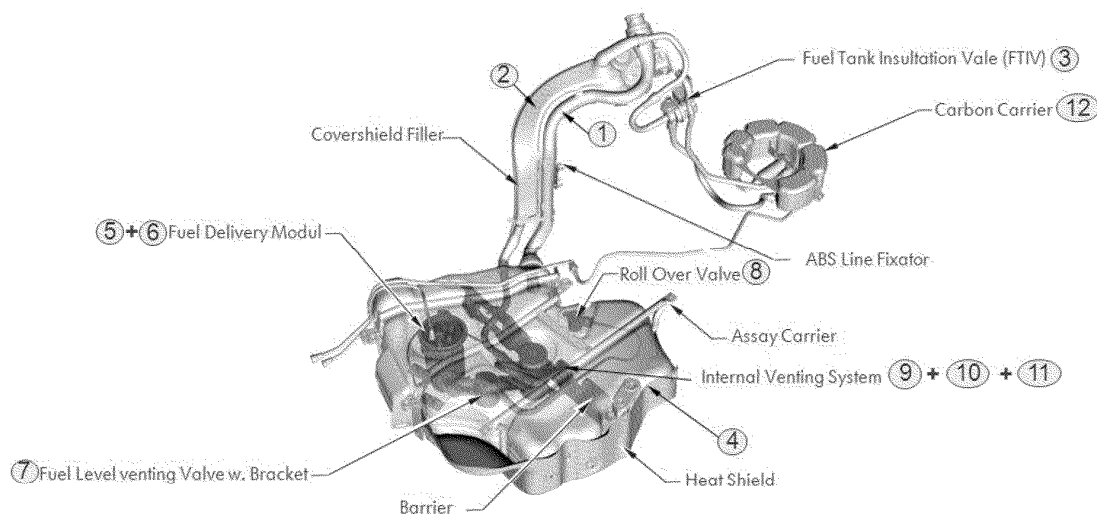
When the engine is running, the fuel tank pressure is controlled by a purge strategy comparable to conventional vehicle concepts.

Before refueling is possible, the fuel tank is vented stepwise by the FTIV to the canister.

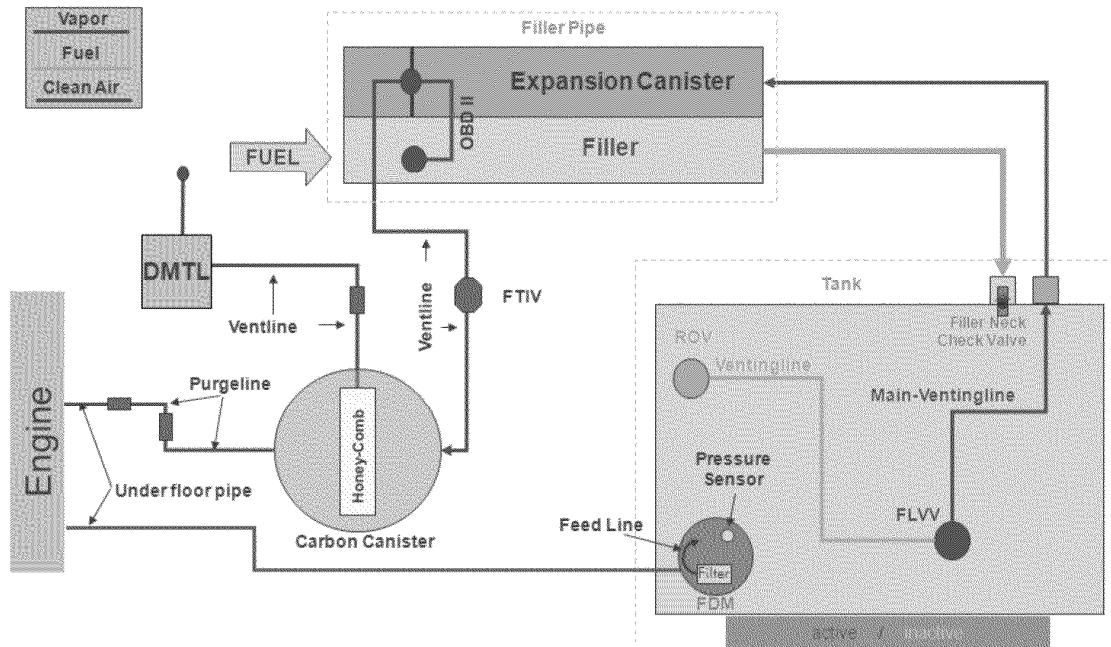
The components and assemblies which are involved in these operations are:

1. Fill pipe
2. Expansion volume
3. Fuel Tank Isolation Valve (FTIV)
4. Fuel tank (high pressure)
5. Fuel Delivery Modul (FDM)
6. Fuel Tank Pressure Sensor
7. Fuel Level Venting Valve (FLVV)
8. Roll-Over Valve (ROV)
9. Main Vent line (inside fuel tank)
10. Vent line (connection between fuel tank, filler and expansion volume) used for leak check too
11. Vent line (connection between ROV and carbon canister)
12. Carbon Canister (Honey-Comb)
13. Vent line (connection between carbon canister and DMTL) (not pictured)
14. Diagnosis Module Tank Leakage (DMTL) (not pictured)

Schematic of Jetta Hybrid 1.4I ORVR System



Filling Ventilation:



For refueling, the fuel-tank-button inside the car must first be pushed in order to vent the fuel tank. The fuel tank is then vented stepwise by the FTIV to the carbon canister. The next step of the refueling operation is to remove the filler cap.

The flow of fuel through the filler neck tube into the fuel tank provides a liquid seal. This prevents fuel vapor from escaping to the atmosphere.

The fuel vapor is channeled through the fuel level venting valve (FLVV) to the carbon canister via the main vent line, expansion volume and through the pressure-holding-valve and outside vent line (multilayer). The hydrocarbons are stored in the carbon canister.

When the tank fuel level reaches the fuel level venting valve (FLVV), its float mechanism closes the pathway for vapor and causes a fuel nozzle shut off.

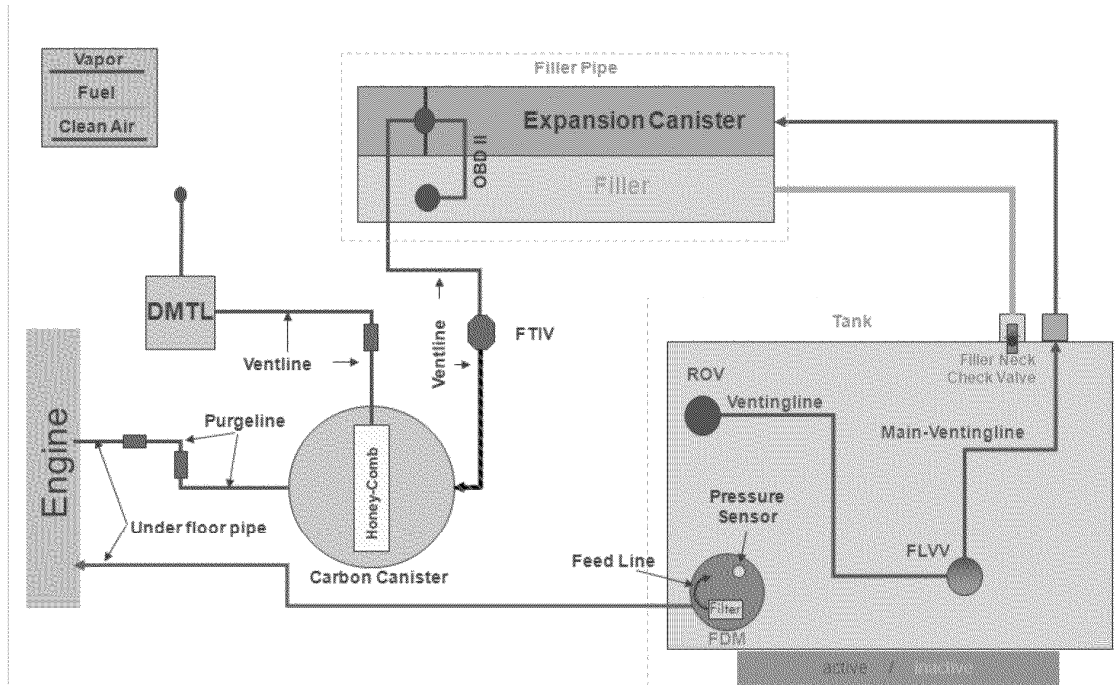
The refueling operation ends with securing the filler cap.

Only in case of refueling, preparation for refueling and for diagnostic purposes a reverse flow over DMTL would be active.

Attachment 1

Operation Ventilation:

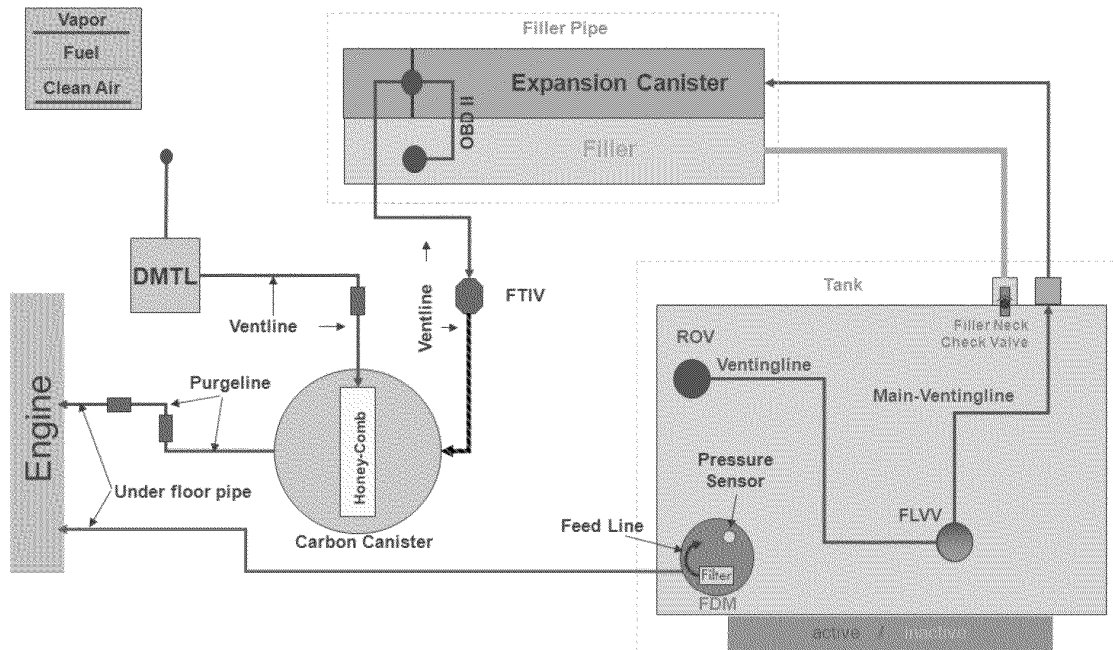
The tank is pressurized. The fuel tank isolation valve (FTIV) is closed.
(The Fuel Tank Isolation Valve is opened only in case of refueling, for diagnostic purposes and in case of the fuel tank pressure reaching a critical threshold.)



Attachment 1

Regeneration:

The tank is at atmospheric pressure or pressurized. Carbon canister venting with fresh air over DMTL. (Regular venting/Diagnostic mode)



➡ **This line can be active or inactive:** The Fuel Tank Isolation Valve (FTIV) is opened only in case of refueling, for diagnostic purposes and in case of the fuel tank pressure reaching a critical threshold. During soak the tank is sealed and therefore no vapor can escape to ambient.

To prevent fuel evaporation to the atmosphere, a charcoal canister is installed between the tank and the atmosphere, which absorbs evaporating hydrocarbons. As the charcoal canister has a limited storage capacity, it has to be discharged at a sufficient rate. This is realized by opening a connection between the charcoal canister and the intake manifold – the purge valve. After the canister purge valve is opened, ambient air is drawn in through the charcoal canister due to the vacuum in the intake manifold. The stored hydrocarbons are discharged and enter the combustion chamber together with the ambient air. The additional air and fuel charges during the canister purge phases lead to a fuel mixture deviation, which is compensated by the ECM's lambda control.

For diagnostic purposes the pressure in the tank will be completely equalized. But under normal driving conditions without extreme atmospheric conditions the FTIV will not open below 50hPa pressure. So normally we have no de-pressurization of the tank during this step.

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Fri 3/16/2012 7:32:28 PM
Subject: RE: VW Group - Jetta 1.4L ORVR Revision
michael.giles@vw.com
<mailto:Sohacki.Lynn@epamail.epa.gov>
michael.giles@vw.com
[image001.gif](#)

Hello Lynn,

Thank you for the quick reply, it is appreciated.

Regards,

Mike

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, March 16, 2012 3:30 PM
To: Giles, Michael
Subject: RE: VW Group - Jetta 1.4L ORVR Revision

Hi, Michael.

Your last revision addresses my concerns and answers my questions.

I will attach a scanned copy of the front page with my "review complete" statement.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: 1-3-2012 vw non-integrated orvr.pdf)

"Giles, Michael" ---03/15/2012 01:08:25 PM---Hello Lynn, Pleased find attached the latest revision of this request, which I believe will answer y

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 03/15/2012 01:08 PM
Subject: RE: VW Group - Jetta 1.4L ORVR Revision

Hello Lynn,

Pleased find attached the latest revision of this request, which I believe will answer your questions. We concur with your comments below (see report for additional and corrected details). Please let me know if there are any others areas which are not clear. If all is good, we would appreciate your review / approval at your earliest convenience.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, March 08, 2012 3:21 PM
To: Giles, Michael
Subject: Re: VW Group - Jetta 1.4L ORVR Revision

Hi, Michael.

Thank you for the new illustrations. They were very helpful. As I understand the operation, the "Regeneration" stage is actually the purge phase where vapors get drawn by vacuum through the canister and into the engine. Air is drawn through the DMTL to take the place of the vapors.

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Let me know if you have any questions, Michael.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/06/2012 12:44 PM
Subject: VW Group - Jetta 1.4L ORVR Revision

Hello Lynn,

Please find attached a revised document with improved diagrams to describe the Jetta Hybrid ORVR system.

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Regards,
Mike

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Michael Giles
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Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

[attachment "attm1_MY2013_JettaHybrid_sys-overview_7.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 3/22/2012 1:19:52 PM
Subject: In-use vehicles scheduled for next week
[parameters form WAUDK78TX9A025592 R105RXX-0024.xlsx](#)
[parameters form WAUDK78T39A026289 R104RXX-0050.xlsx](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the test requests for the two Audi A5s for test group 9AD XV03.23LC.

We will be at your laboratory on Thursday, 29th of March at 10am to inspect both cars.

Let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 3/22/2012 1:41:13 PM
Subject: FW: In-use vehicles scheduled for next week - Correction
[parameters form WAUDK78T39A026289 R104RXX-0050.xlsx](#)
[parameters form WAUDK78TX9A025592 R105RXX-0024.xlsx](#)
sebastian.berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Sorry Lynn,

But I had the wrong weight in the sheet. Both vehicles are automatics according to our information and run in the 4000 pound class.

Please use these ones.

Sorry for that.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Berenz, Sebastian
Sent: Thursday, March 22, 2012 9:20 AM
To: Lynn Sohacki (Sohacki.Lynn@epamail.epa.gov)
Subject: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test requests for the two Audi A5s for test group 9AD XV03.23LC.

We will be at your laboratory on Thursday, 29th of March at 10am to inspect both cars.

Let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

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E-Mail: sebastian.berenz@vw.com

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To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 3/30/2012 8:18:15 PM
Subject: EPA Surveillance Programm 9AD XV03.23LC - 3.2l AVS MY 2009
[parameters form_WAUDK78TX9A025592_R105RXX-0024.xlsx](#)
sebastian.berenz@vw.com

Hello Lynn,

Yesterday we inspected the two Audi A5s in your lab.

Both seemed to be alright. But one turned out to me a manual 6-speed instead of an automatic.

Therefore I have to change the parameter sheet.

Please use the attached version for vehicle Ex. 6

The shift schedule is the standard EPA 6-speed schedule.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

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FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 4/2/2012 4:11:05 PM
Subject: RE: FW: In-use vehicles scheduled for next week - Correction
[parameters form](#) [Ex. 6](#) [R105RXX-0024.xlsx](#)
[parameters form](#) [Ex. 6](#) [R104RXX-0050.xlsx](#)
sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>
Sohacki.Lynn@epamail.epa.gov
sebastian.berenz@vw.com
<http://www.volkswagen.com>
[image001.gif](#)

Hello Lynn,

For vehicle R105-0024 please use the standard EPA 6-speed shift schedule. (see attached parameter sheet that I corrected on Friday)

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, April 02, 2012 12:01 PM
To: Berenz, Sebastian
Subject: Re: FW: In-use vehicles scheduled for next week - Correction

Hi, Sebastian.

Vehicle R105-0024 is a manual transmission vehicle. What would the shift schedules be for it?

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian" ---03/22/2012 09:41:18 AM---Sorry Lynn, But I had the wrong weight in the sheet. Both vehicles are automatics according to our i

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/22/2012 09:41 AM
Subject: FW: In-use vehicles scheduled for next week - Correction

Sorry Lynn,

But I had the wrong weight in the sheet. Both vehicles are automatics according to our information and run in the 4000 pound class.

Please use these ones.

Sorry for that.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Thursday, March 22, 2012 9:20 AM
To: Lynn Sohacki (Sohacki.Lynn@epamail.epa.gov)
Subject: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test requests for the two Audi A5s for test group 9AD XV03.23LC.

We will be at your laboratory on Thursday, 29th of March at 10am to inspect both cars.

Let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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(See attached file: parameters form **Ex. 6**.xlsx)(See attached file: parameters form **Ex. 6**.x)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 4/10/2012 3:33:32 PM
Subject: RE: Notification of a new in-use surveillance test class R136
sebastian.berenz@vw.com

Hello Lynn,

Thank you very much for the information.

Please let me know when the first vehicles comes in.

Also do you have any results of the 3.2l Audis?

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, April 10, 2012 11:22 AM
To: Berenz, Sebastian
Subject: Notification of a new in-use surveillance test class R136

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: NOTIF-R-136-Volkswagen.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 4/10/2012 6:18:30 PM
Subject: RE: Test data for in-use vehicle
sebastian.berenz@vw.com

Hello Lynn,

This one passed right away and looked pretty good from my end.

Please let me know when you have the result of the last vehicle.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, April 10, 2012 12:43 PM
To: Berenz, Sebastian
Subject: Test data for in-use vehicle

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: R105RXX-0024.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 5/3/2012 2:53:54 PM
Subject: RE: Meeting to discuss the Quattros
sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>
[image001.gif](#)

Hello Lynn,

It is me and my colleague Garrett Horton, only two of us.

See you at 4 pm.

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, May 03, 2012 10:50 AM
To: Berenz, Sebastian
Subject: RE: Meeting to discuss the Quattros

Hi, Sebastian.

For seating purposes, how many will be attending from VW/Audi?

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian" ---05/03/2012 09:46:29 AM---Hello Lynn, 4:00 pm is perfect. See you at 4:00 pm.

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 05/03/2012 09:46 AM
Subject: RE: Meeting to discuss the Quattros

Hello Lynn,

4:00 pm is perfect. See you at 4:00 pm.
Just let me know where exactly I will have to go.

Thank you very much.
Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, May 03, 2012 9:43 AM
To: Berenz, Sebastian
Subject: Meeting to discuss the Quattros

Hi, Sebastian.

It looks like most of the team members are available between 4 and 4:30. Do you think that will be enough time for your presentation? If not, let me know.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Fri 5/11/2012 2:06:05 PM
Subject: EPA surveillance program MY2010 2.5I AVWXV02.5259
sebastian.berenz@vw.com

Hello Lynn,

Hello Bernd,

John White contacted me that we will have the first car for EPA surveillance program MY2010 2.5I AVWXV02.5259.

VIN: Ex. 6

Can you please verify this, so that I can prepare the data for this vehicle?

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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VOLKSWAGEN**RECEIVED
MAR 05 2002
VPCD**

February 28, 2002

Engineering and
Environmental Office (EEO)
Mail Code EEO
3800 Hamlin Road
Auburn Hills, MI 48326
Tel. (248) 754-5000
Fax (248) 754-4707

Mr. Bruce Sdunek
U.S. Environmental Protection Agency
Office of Mobile Sources
Vehicle Programs and Compliance Division
National Vehicle and Fuel Emission Laboratory
2000 Traverwood
Ann Arbor, Michigan 48105

Subject: Request for Additional Preconditioning

Dear Mr. Sdunek:

As part of the 2003 model year product line, Volkswagen intends to offer a version of the 2.0-liter Volkswagen Jetta certified to the California Partial Zero Emission Vehicle (PZEV) requirements. Therefore, this concept will be required to comply with the California Super-Ultra-Low Emission Vehicle (SULEV) exhaust emission standards and zero-evaporative emission standards.

To ensure emission stabilization prior to emission testing, Volkswagen requests, in accordance with the provisions of 40 CFR 86.132-96(d), that additional preconditioning be allowed when testing the 2.0-liter Volkswagen Jetta PZEV concept. The entire preconditioning process would consist of the prescribed Urban Dynamometer Driving Schedule (UDDS) with the addition of one complete Highway Fuel Economy Test (HWFET) cycle.

The additional preconditioning would be performed whenever an emission test is conducted for new vehicle certification or in-use emission testing.

Your consideration of this matter is greatly appreciated. If there are any questions, please contact me at (248) 754-4704, or Mr. Dennis Reineke of my staff at (248) 754-4715.

Best regards,
VOLKSWAGEN OF AMERICA, INC.

Leonard W. Kata, Team Leader
Emission Regulations and Certification
Engineering and Environmental Office

Dennis/Len,

*Add'l preconditioning has
never been allowed ~~from~~ during
EPA preloaded canister tests.
Therefore we must deny your request
for certification tests.*

*For in-use tests it is
approved, ref CD-94-13 dated 7/29/94.
D Good 4/4/02*

Fuel drain for vehicle preconditioning

Instruction manual

powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 1

date: 04/07/2009



Fuel drain for vehicle preconditioning

Vehicle preparation (for example: gasoline) ->diesel see page 7

1. Close the fuel line, mount a crimp pincer (yellow), see page 4.
2. Disconnect the fuel line from rail in the engine compartment.
3. Connect the T-piece between rail and fuel line with clips, see page 5.

Attention: Carefully check all clips in the fuel line before you start the engine or pump!

4. Open the fuel line, remove the crimp pincer.

Description of fuel drain (gasoline and diesel)

1. Change the original against a external prepared connector on the fuel pump.
2. Connect a drain line with a male connector at the quickconnector (QC).
3. Switch on the pump with external DC power supply (Voltage:12V/Current:20A).
4. After the fuel drain switch off the power supply.
5. Disconnect the drain line from the selfsealing female QC and close the QC with plug.

Look at the following pictures

powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung



Fuel drain for vehicle preconditioning

T-piece for fuel draining with selfsealing connector and plug (swagelok QC6)



powertrain development

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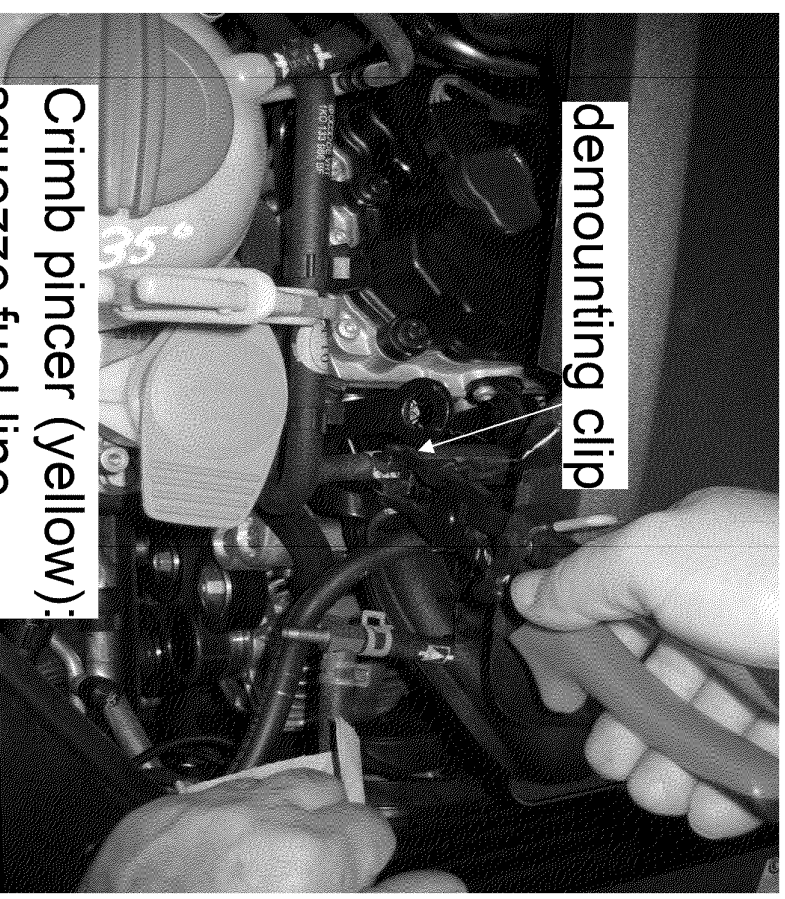
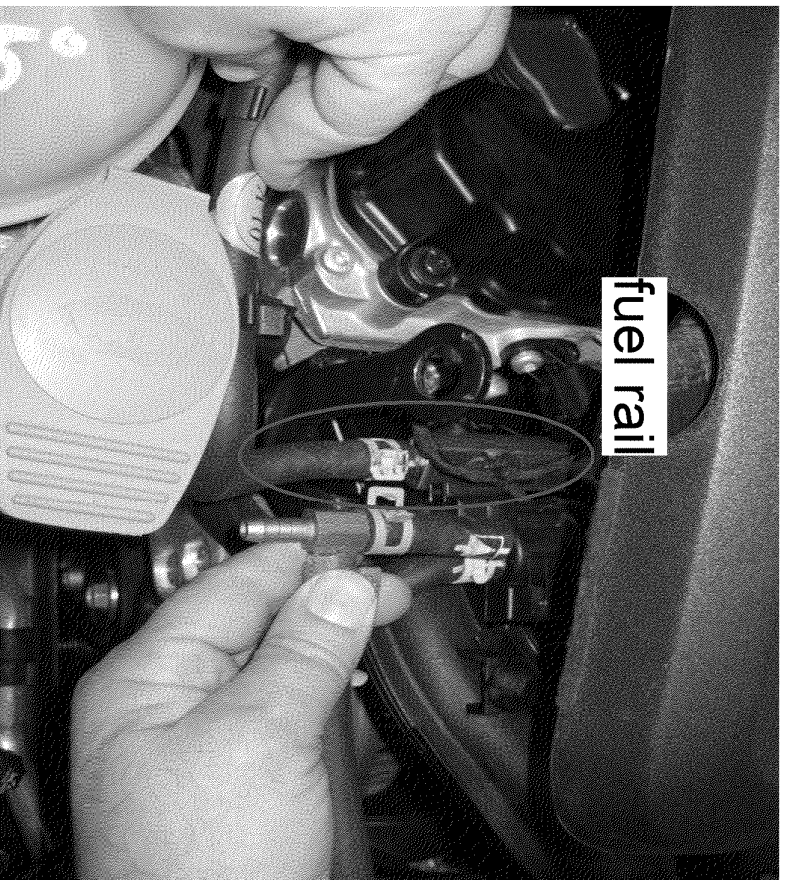
page 3

date: 04/07/2009



Fuel drain for vehicle preconditioning

gasoline vehicle: connection of T-piece in the fuel rail (engine compartment)



powertrain development

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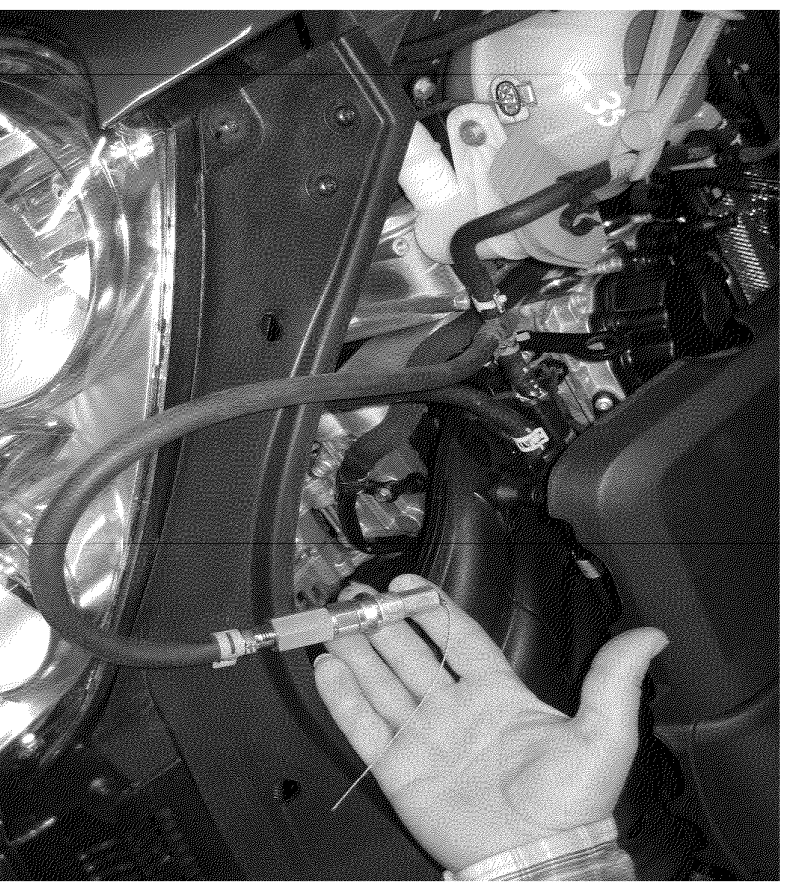
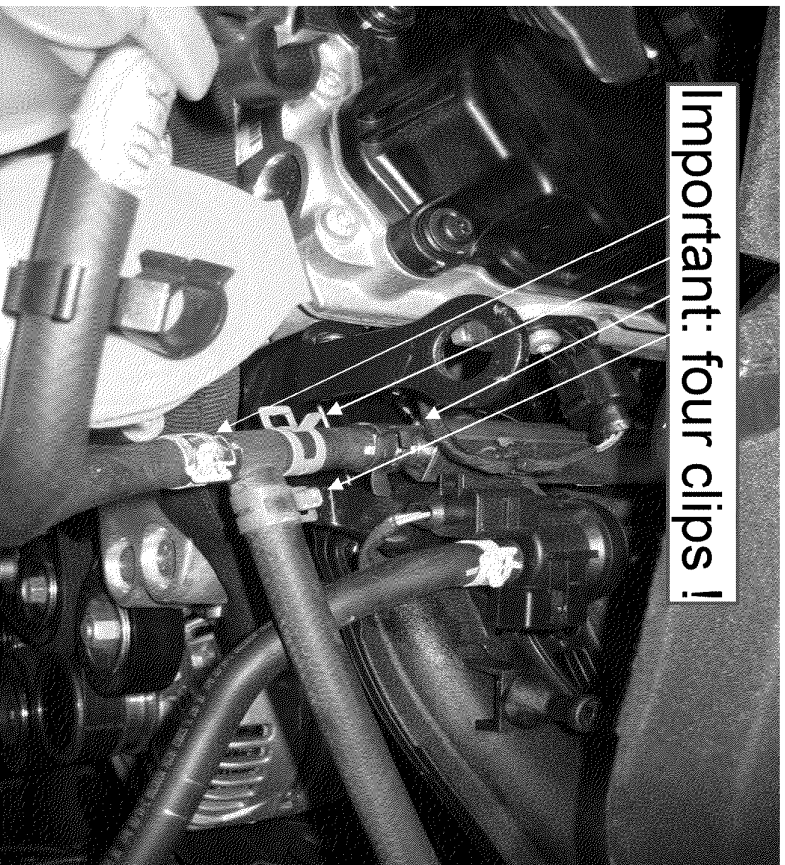
page 4

date: 04/07/2009



Fuel drain for vehicle preconditioning

gasoline vehicle: connection of T-piece in the fuel rail (engine compartment)



powertrain development

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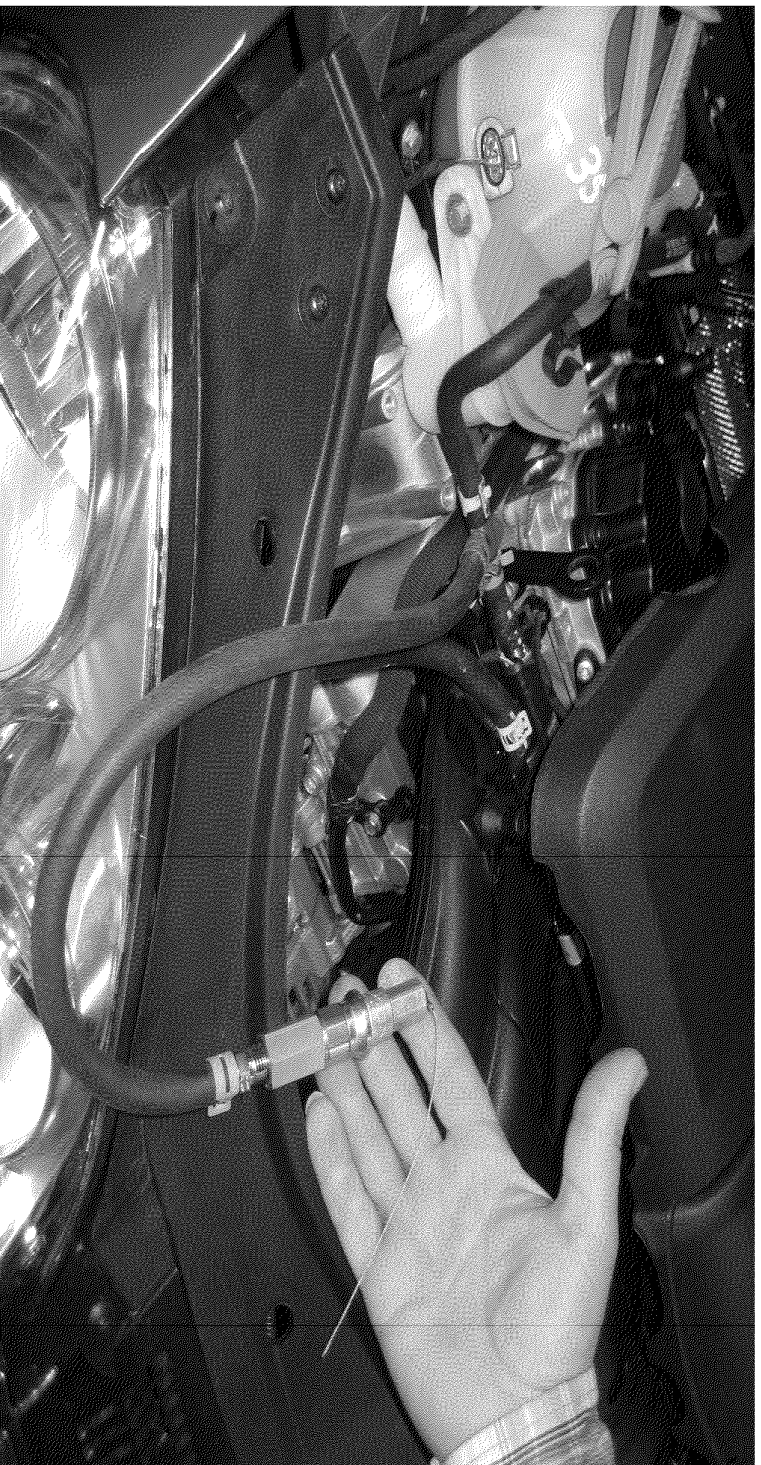
page 5

date: 04/07/2009



Fuel drain for vehicle preconditioning

gasoline vehicle: T-piece in the fuel rail (engine compartment) **Attention:** check all clips (four) in the fuel line before you start the engine !



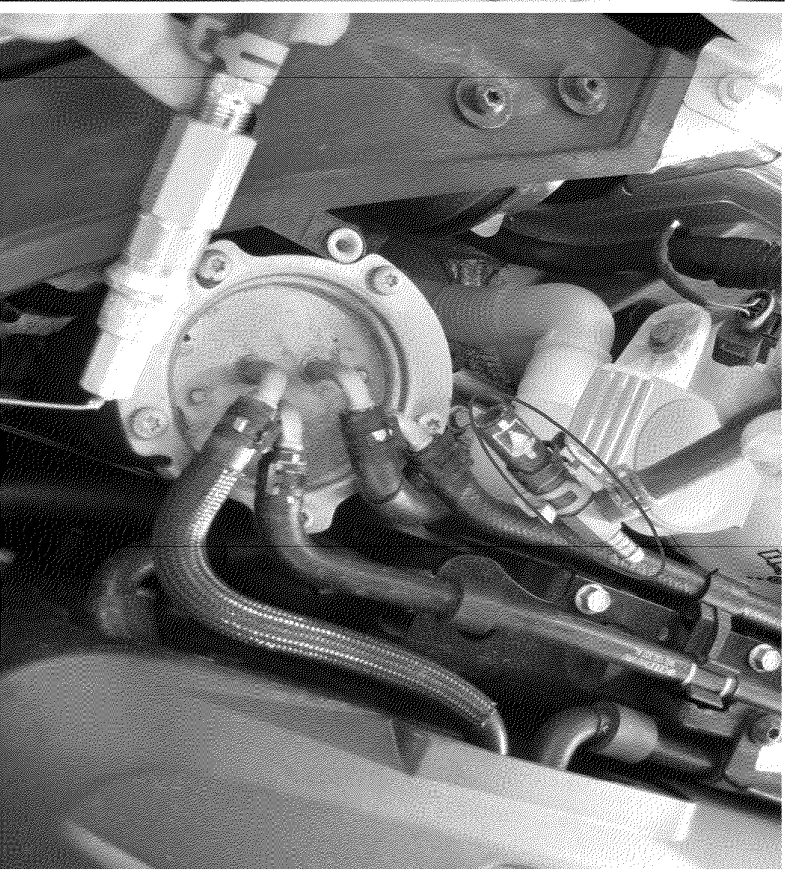
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Fuel drain for vehicle preconditioning

diesel vehicle: connection of T-piece in the fuel rail (engine compartment)



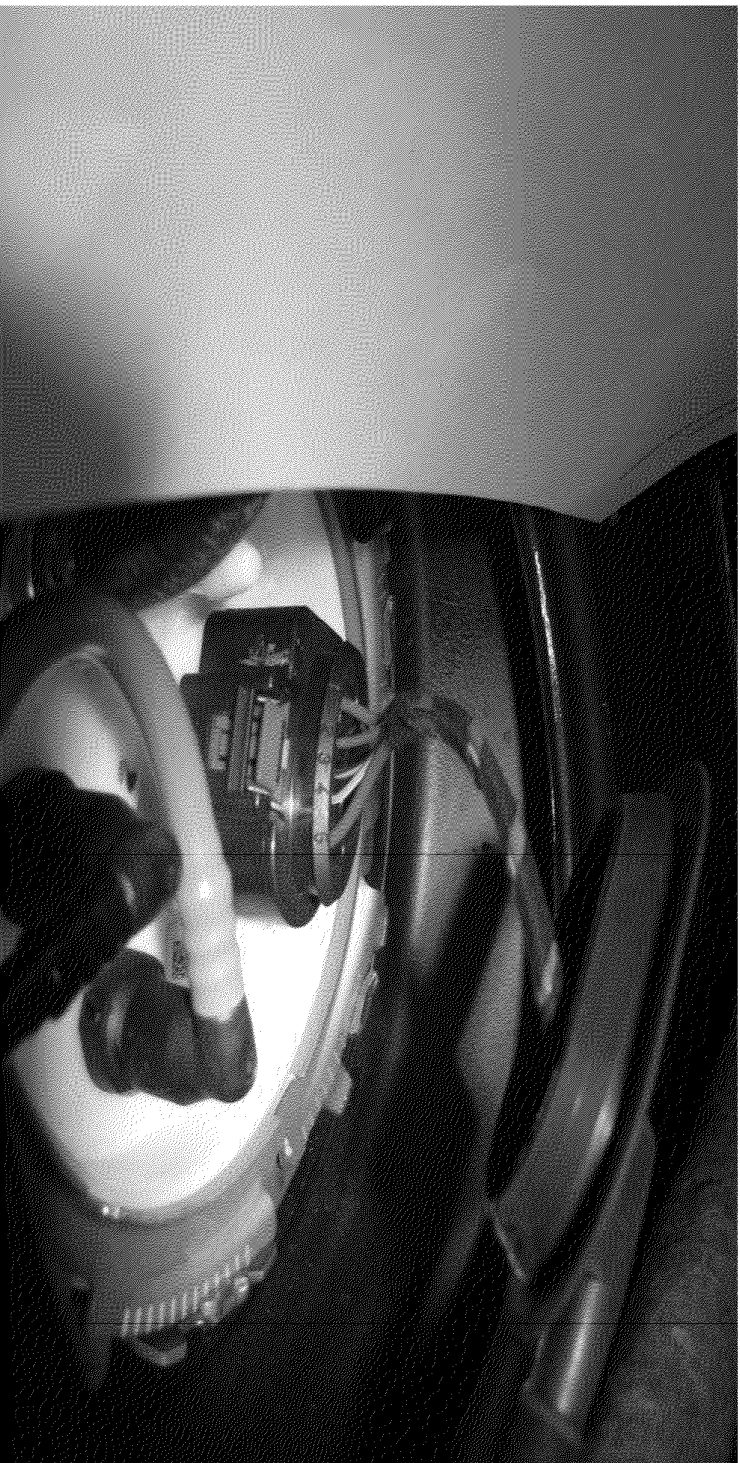
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Fuel drain for vehicle preconditioning

Fuel pump, electrical connector, original part (rear seats, right hand side)



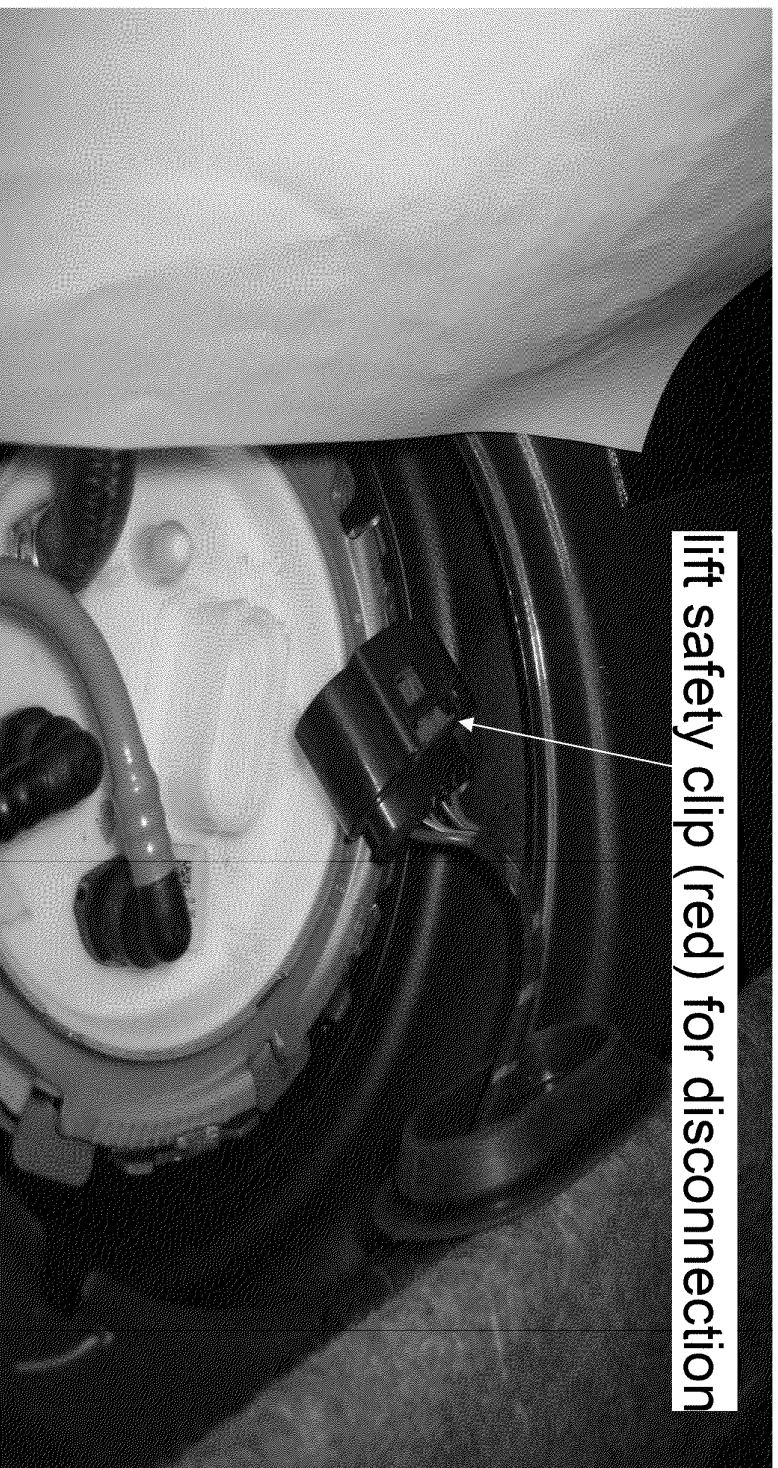
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Fuel drain for vehicle preconditioning

Fuel pump, electrical connector, disconnect original part



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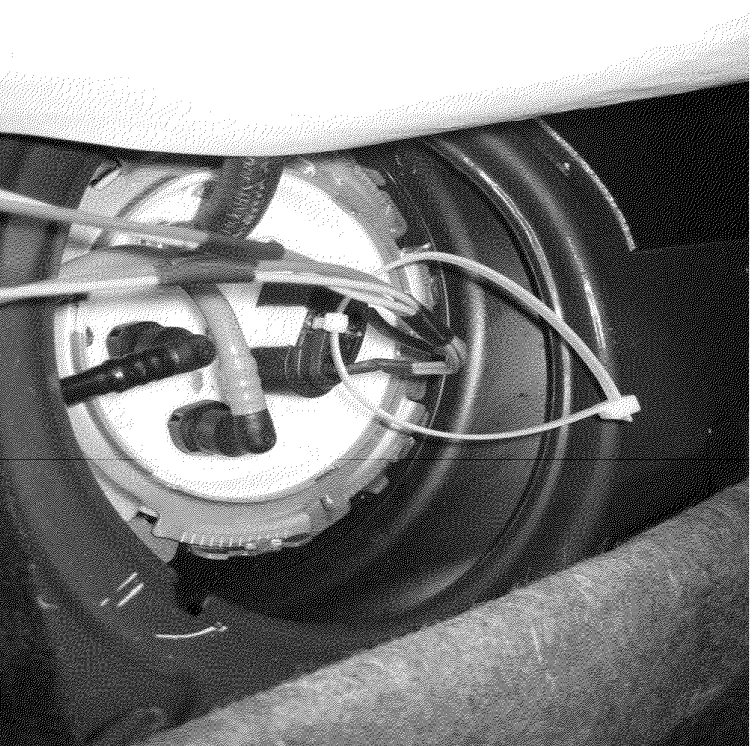
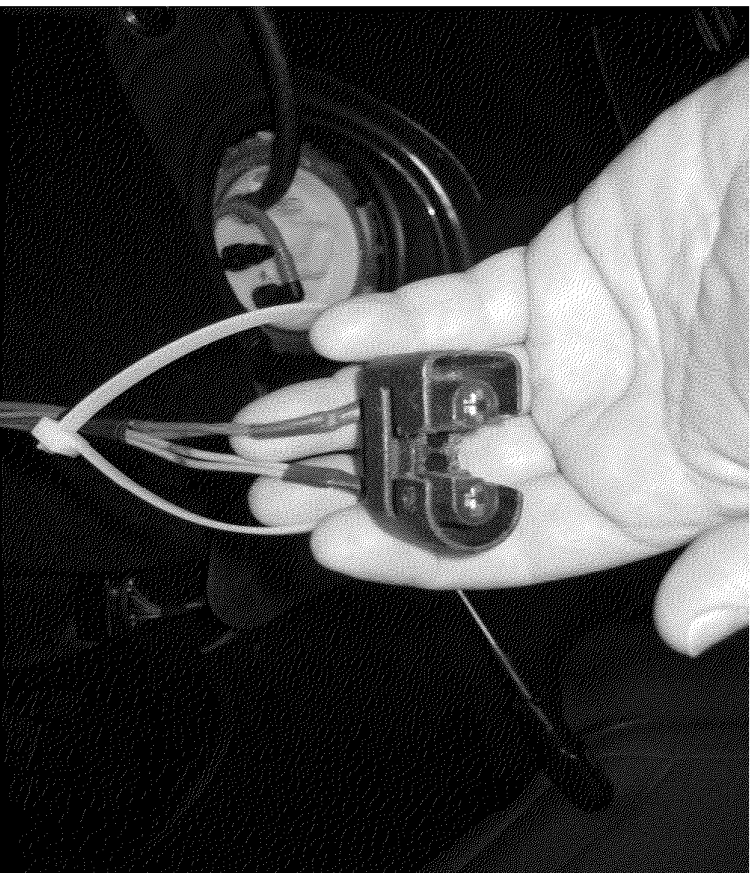
page 9

date: 04/07/2009



Fuel drain for vehicle preconditioning

Fuel pump, external electrical connector with DC power supply (red wire = plus blue or brown wire = negative pole)



powertrain development

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To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Tue 5/15/2012 5:24:07 PM
Subject: Re: In-use vehicles scheduled for next week
sebastian.berenz@vw.com
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>
Sebastian.Berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>
[graycol.gif](#)

Hello Lynn,

We are right now at the car with URS personnel and check the vehicle in.

The traction control needs to be deactivated after every keycycle or start by press and hold the traction control button by the gear selector.

Mark will leave a note in the car for the lab.
We make sure he knows the system.

Best regards

Sebastian

From: Lynn Sohacki [<mailto:Sohacki.Lynn@epamail.epa.gov>]
Sent: Tuesday, May 15, 2012 01:13 PM
To: Berenz, Sebastian (EEO)
Cc: Bernd Liebner <Liebner.Bernd@epamail.epa.gov>
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

Once the traction control is deactivated, will it remain deactivated throughout the testing or will the testers need to deactivate the traction control every time the vehicle is started?

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---05/15/2012 10:19:38 AM---Hello Lynn, We will bring the description with us that explains the drain procedure. As far as start

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Bernd Liebner/AA/USEPA/US@EPA
Date: 05/15/2012 10:19 AM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

We will bring the description with us that explains the drain procedure. As far as starting the car, there are no special requirements. Only to deactivate traction control, which we will explain to the URS guys.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, May 15, 2012 8:50 AM
To: Berenz, Sebastian (EEO)
Cc: Bernd Liebner
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

Please bring written instructions as well as planning on talking to URS at the time of maintenance. Our lab people will also need to know how to start the car so written directions will need to be placed into the vehicle.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---05/14/2012 11:20:08 AM---Hello Lynn, Attached you will find the data for the Jetta 2.5I.

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 05/14/2012 11:20 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the data for the Jetta 2.5I.

Since this is a SULEV(PZEV)/Bin3 concept, we asked for an additional preconditioning cycle (HWY) during the certification phase for in-use vehicles. (See attached pdf)
Please perform a HWY after the regular FTP72 to precondition the vehicle.

Thank you very much. See you tomorrow.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, May 14, 2012 10:37 AM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R136RXX-0020 (2010 VW/Jetta) - VIN# Ex. 6 0800 Veh. Pick up on 5/15/12 (Tuesday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)[attachment "parameters form_R136RXX-0020 .xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "20110620171844239.pdf" deleted by Lynn Sohacki/AA/USEPA/US]
[attachment "fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 5/16/2012 7:45:41 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R136RXX-0088 (2010 VW/Jetta) - VIN# Ex. 6 0700 Veh. Pick up on 5/22/12 (Tuesday)

R136RXX-0014 (2010 VW/Jetta) - VIN# Ex. 6 0800 Veh. Pick up on 5/23/12 (Wednesday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 5/17/2012 12:56:43 PM
Subject: Re: R136RXX-0020 - [Ex. 6] Jetta
sebastian.berenz@vw.com

Thank you, Sebastian.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 05/17/2012 08:30 AM
Subject: R136RXX-0020 - [Ex. 6] Jetta

Hello Lynn,

Here is the update for R136RXX-0020 [Ex. 6] Jetta.
I will send the other two parameter sheets out as soon as I have them finished.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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[attachment "parameters form_R136RXX-0020 .xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Thur 5/17/2012 1:05:35 PM
Subject: RE: In-use vehicles scheduled for next week
[parameters form R136RXX-0014.xlsx](#)
[parameters form R136RXX-0088.xlsx](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the two parameter sheets for the vehicles we will get next week.

They are all identical due to the parameters.

Whenever I get a call from URS, we will come down to Ann Arbor and check the Jetta's in.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, May 16, 2012 3:46 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R136RXX-0088 (2010 VW/Jetta) - VIN# **Ex. 6** 0700 Veh. Pick up on 5/22/12 (Tuesday)

R136RXX-0014 (2010 VW/Jetta) - VIN# **Ex. 6** 0800 Veh. Pick up on 5/23/12 (Wednesday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Thur 5/24/2012 12:53:54 PM
Subject: RE: In-use vehicles scheduled for next week
[parameters form R136RXX-0088.xlsx](#)
[parameters form R136RXX-0014.xlsx](#)
sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>

Hello Lynn,

We inspected the two vehicles yesterday and I added the missing weight to the paperwork and signed it together with Vince.

Attached you will find my update. All three vehicles have the same parameters.

Let me know if you need anything.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

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From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, May 23, 2012 9:28 AM
To: Berenz, Sebastian (EEO)
Subject: Fw: In-use vehicles scheduled for next week

Hi, Sebastian.

The file for R136RXX-0088 does not seem to have an equivalent test weight. Please forward that to me when you can. Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 05/23/2012 09:26 AM -----

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 05/17/2012 09:07 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the two parameter sheets for the vehicles we will get next week.
They are all identical due to the parameters.

Whenever I get a call from URS, we will come down to Ann Arbor and check the Jetta's in.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, May 16, 2012 3:46 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R136RXX-0088 (2010 VW/Jetta) - VIN# Ex. 6 0700 Veh. Pick up on 5/22/12 (Tuesday)

R136RXX-0014 (2010 VW/Jetta) - VIN# Ex. 6 0800 Veh. Pick up on 5/23/12 (Wednesday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)(See attached file: parameters form_R136RXX-0014.xlsx)(See attached file: parameters form_R136RXX-0088.xlsx)

C150

NVFEL Laboratory Test Data Final Laboratory Test Results

CVS

Test Information

Test Number: 2012-0208-005
Test Date: 5/24/2012
Key Start: 14:15:34
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 90 US06 (us06warmup_us06)
Calculation Method: Gasoline
Pretest Remarks:

Vehicle ID: R136RXX-0020
MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980041
Beginning Odometer: 015145.0 MI
Drive Schedule: us06_us06

Bag Data**Phase 1**

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	5.635	57.220	0.308	1.027	2.183	
Ambient	4.641	0.522	0.000	0.043	2.013	
Net Concentration	1.352	56.739	0.308	0.987	0.326	0.995

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.015	1.261	0.010	344.9	0.004	0.011	25.724

Fuel Economy

Gasoline MPG
Phase 1 25.66

Dyno Settings

Dyno #: D002
Inertia: 3625
EPA Set Co A: 6.7800002
EPA Set Co B: 0.27779999
EPA Set Co C: 0.01644

Emiss-Bench: D002

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2012-0208-005

Vehicle ID: R136RXX-0020

Results




	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.119	10.101	0.082	2762.0	0.033	0.088	1.098

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.90			
Avg Cell Temp (degF)	75.17			
Dew Point (degF)	49.42			
Specific Humidity (grains/lbm)	54.26			
NOx Corr Factor	0.9112			
CO2 Dilution Factor	12.963			
CFV Vmix (scf @68F)	5399.58			
 CVS Flow Rate Avg (scfm)	 538.34			
 Fan Placement: USO6 Only - One Large Fan - Up - Front				
Phase Time (secs)	601.80			
Distance (miles)	8.007			
Bag Analysis Time (secs)	75.0			

C15D

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0208-004			Vehicle ID: R136RXX-0020				
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  </div> <div style="width: 65%;"> <div> Test Date: 5/24/2012 Key Start: 13:30:36 Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfetprep_hwfet) Calculation Method: Gasoline Pretest Remarks: </div> <div> MFR Name: VOLKSWAGEN MFR Codes: 590 VWX Config #: 00 Transmission: AUTO Shift Schedule: A09980011 Beginning Odometer: 015125.0 MI Drive Schedule: hwfet_hwfet </div> </div> </div>							
Test Information							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.034	17.586	0.497	1.529	1.908		
Ambient	3.038	0.473	0.017	0.044	1.982		
Net Concentration	0.343	17.168	0.482	1.490	0.152	0.176	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.002	0.169	0.007	230.1	0.001	0.001	38.741
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	38.65	Dyno #: D002 Inertia: 3625 EPA Set Co A: 6.7800002 EPA Set Co B: 0.27779999 EPA Set Co C: 0.01644 Emiss-Bench: D002					

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2012-0208-004

Vehicle ID: R136RXX-0020

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.017	1.726	0.072	2353.9	0.009	0.009	1.098

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.91			
Avg Cell Temp (degF)	75.10			
Dew Point (degF)	49.32			
Specific Humidity (grains/lbm)	54.04			
NOx Corr Factor	0.9103			
CO2 Dilution Factor	8.751			
CFV Vmix (scf @68F)	3049.33			
 CVS Flow Rate Avg (scfm)	 239.13			
 Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.10			
Distance (miles)	10.229			
Bag Analysis Time (secs)	74.9			

150

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Information



Test Number: 2012-0208-002

Test Date: 5/24/2012

Key Start / Hot Soak: 12:01:13 / 09:36

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp

Calculation Method: Gasoline

Pretest Remarks:

Vehicle ID: R136RXX-0020

MFR Name: VOLKSWAGEN

MFR Codes: 590 VWX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980005

Beginning Odometer: 015114.0 MI

Drive Schedule: ftp3bag

Soak Period: 28.1 hours

Bag Data

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Phase 1						
Sample	6.031	49.451	0.285	0.849	2.360	
Ambient	3.626	0.713	0.008	0.043	1.989	
Net Concentration	2.636	48.784	0.277	0.808	0.498	2.089

Remarks:

Phase 2

Sample	3.341	3.370	0.004	0.545	1.933	
Ambient	3.431	0.656	0.015	0.043	1.988	
Net Concentration	0.050	2.741	-0.011	0.504	0.026	0.022

Remarks:

Phase 3

Sample	3.252	8.192	0.079	0.729	1.985	
Ambient	3.129	0.605	0.002	0.042	1.932	
Net Concentration	0.294	7.621	0.077	0.689	0.158	0.121

Remarks:

Phase 4

Sample						
Ambient						
Net Concentration						

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.039	1.453	0.012	378.1	0.009	0.031	23.453
Phase 2	0.001	0.130	0.000	376.9	0.001	0.001	23.669
Phase 3	0.004	0.225	0.003	320.3	0.003	0.002	27.832
Weighted	0.00987	0.43116	0.00350	361.547	0.00287	0.00715	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #:
Phase 1	23.40		D002
Phase 2	23.62		Inertia: 3625
Phase 3	27.77		EPA Set Co A: 6.7800002
			EPA Set Co B: 0.27779999
			EPA Set Co C: 0.01644
Weighted	24.55		Emiss-Bench: D002

v120518 - d002 EPAVDAEm120524115030

Page 1 of 2

Print Time 29-May-2012 14:53

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0208-002

Vehicle ID: R136RXX-0020

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.139	5.188	0.044	1350.0	0.030	0.110	1.098
Phase 2	0.005	0.499	0.000	1441.8	0.003	0.002	
Phase 3	0.015	0.808	0.012	1147.8	0.010	0.006	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.92	28.92	28.92	
Avg Cell Temp (degF)	75.08	75.03	75.19	
Dew Point (degF)	49.31	49.19	49.23	
Specific Humidity (grains/lbm)	54.00	53.77	53.84	
NOx Corr Factor	0.9102	0.9093	0.9095	
CO2 Dilution Factor	15.689	24.537	18.349	
CFV Vmix (scf @68F)	3225.48	5520.00	3215.06	
CVS Flow Rate Avg (scfm)	381.41	380.65	380.56	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.40	870.10	506.90	
Distance (miles)	3.570	3.826	3.583	
Bag Analysis Time (secs)	79.0	74.0	73.6	

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Wed 5/30/2012 6:09:22 PM
Subject: RE: Test data for in-use vehicle R136-0020
sebastian.berenz@vw.com

Thank you very much.

The results look pretty good and the vehicle passed the standards.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [<mailto:Sohacki.Lynn@epamail.epa.gov>]
Sent: Wednesday, May 30, 2012 1:12 PM
To: Berenz, Sebastian (EEO)

Subject: Test data for in-use vehicle R136-0020


Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: R136RXX-0020.pdf)

CISD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0217-002		Vehicle ID: R136RXX-0088					
	Test Date: 5/30/2012		MFR Name: VOLKSWAGEN				
	Key Start / Hot Soak: 08:45:16 / 09:35		MFR Codes: 590 VWX				
	Fuel Container ID: F00023		Config #: 00				
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO				
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005				
	Calculation Method: Gasoline		Beginning Odometer: 015992.0 MI				
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 17.6 hours					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	5.703	58.667	0.327	0.852	2.449		
Ambient	2.780	0.356	0.015	0.046	2.063		
Net Concentration	3.101	58.334	0.313	0.808	0.519	2.531	
Remarks:							
Phase 2							
Sample	2.649	4.094	0.018	0.549	1.987		
Ambient	2.734	0.404	0.002	0.047	2.052		
Net Concentration	0.027	3.707	0.016	0.504	0.020	0.006	
Remarks:							
Phase 3							
Sample	2.724	5.062	0.815	0.732	2.024		
Ambient	2.721	0.550	0.000	0.046	2.017		
Net Concentration	0.151	4.542	0.815	0.689	0.117	0.023	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.046	1.728	0.014	376.3	0.009	0.037	23.539
Phase 2	0.001	0.175	0.001	374.3	0.001	0.000	23.826
Phase 3	0.002	0.134	0.036	319.4	0.002	0.000	27.921
Weighted	0.01038	0.48610	0.01333	359.635	0.00265	0.00787	
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	23.48	Dyno #: D002					
Phase 2	23.77	Inertia: 3625					
Phase 3	27.86	EPA Set Co A: 7.8400002					
		EPA Set Co B: 0.19499999					
		EPA Set Co C: 0.017440001					
Weighted	24.68	Emiss-Bench: D002					
v120518 - d002 EPAVDAEm120530083359 Page 1 of 2 Print Time 31-May-2012 06:56							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0217-002

Vehicle ID: R136RXX-0088

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.163	6.207	0.050	1351.5	0.032	0.133	1.098
Phase 2	0.002	0.675	0.004	1442.1	0.002	0.001	
Phase 3	0.008	0.482	0.129	1148.3	0.007	0.001	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.88	28.88	28.89	
Avg Cell Temp (degF)	75.10	75.14	75.37	
Dew Point (degF)	48.99	49.28	49.26	
Specific Humidity (grains/lbm)	53.42	54.01	53.93	
NOx Corr Factor	0.9079	0.9102	0.9099	
CO2 Dilution Factor	15.615	24.392	18.288	
CFV Vmix (scf @68F)	3227.42	5522.47	3217.89	
CVS Flow Rate Avg (scfm)	381.94	380.73	380.59	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.00	870.30	507.30	
Distance (miles)	3.591	3.852	3.595	
Bag Analysis Time (secs)	74.9	75.5	74.0	

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Information



Test Number: 2012-0217-004
 Test Date: 5/30/2012
 Key Start: 10:02:22
 Fuel Container ID: F00023
 Fuel Type: 61 Tier 2 Cert Test Fuel
 Test Procedure: 03 HWFET (hwfetprep_hwfet)
 Calculation Method: Gasoline
 Pretest Remarks:

Vehicle ID: R136RXX-0088
 MFR Name: VOLKSWAGEN
 MFR Codes: 590 VWX
 Config #: 00
 Transmission: AUTO
 Shift Schedule: A09980011
 Beginning Odometer: 016004.0 MI
 Drive Schedule: hwfet_hwfet

Bag Data

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Phase 1						
Sample	2.754	17.162	0.231	1.520	1.956	
Ambient	2.700	0.377	0.007	0.046	1.990	
Net Concentration	0.361	16.828	0.225	1.480	0.192	0.151

Remarks:

Phase 2

Sample
 Ambient
 Net Concentration

Remarks:

Phase 3

Sample
 Ambient
 Net Concentration

Remarks:

Phase 4

Sample
 Ambient
 Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.002	0.165	0.003	228.0	0.001	0.001	39.099

Fuel Economy

Gasoline MPG
 Phase 1 39.01

Dyno Settings

Dyno #: D002
 Inertia: 3625
 EPA Set Co A: 7.8400002
 EPA Set Co B: 0.19499999
 EPA Set Co C: 0.017440001
 Emiss-Bench: D002

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0217-004

Vehicle ID: R136RXX-0088

Results




	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.018	1.693	0.034	2338.6	0.011	0.008	1.098

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.89			
Avg Cell Temp (degF)	74.96			
Dew Point (degF)	49.36			
Specific Humidity (grains/lbm)	54.16			
NOx Corr Factor	0.9108			
CO2 Dilution Factor	8.805			
CFV Vmix (scf @68F)	3050.78			
CVS Flow Rate Avg (scfm)	239.28			
Fan Placement:	One Fan - Up - Front			
Phase Time (secs)	764.99			
Distance (miles)	10.257			
Bag Analysis Time (secs)	74.5			

C157

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2012-0217-005				Vehicle ID: R136RXX-0088			
	Test Date: 5/30/2012			MFR Name: VOLKSWAGEN			
	Key Start: 10:47:09			MFR Codes: 590 VWX			
	Fuel Container ID: F00023			Config #: 00			
	Fuel Type: 61 Tier 2 Cert Test Fuel			Transmission: AUTO			
	Test Procedure: 90 US06 (us06warmup_us06)			Shift Schedule: A09980041			
	Calculation Method: Gasoline			Beginning Odometer: 016024.0 MI			
Pretest Remarks:			Drive Schedule: us06_us06				
Bag Data		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Phase 1							
Sample		3.345	20.542	0.443	1.029	1.956	
Ambient		2.785	0.447	0.013	0.050	1.982	
Net Concentration		0.774	20.129	0.431	0.983	0.126	0.635
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
Phase 1		0.009	0.450	0.015	345.4	0.002	0.007
							25.788
Fuel Economy		<u>Gasoline MPG</u>			<u>Dyno Settings</u>		
Phase 1		25.73			Dyno #: D002		
					Inertia: 3625		
					EPA Set Co A: 7.8400002		
					EPA Set Co B: 0.19499999		
					EPA Set Co C: 0.017440001		
					Emiss-Bench: D002		

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0217-005

Vehicle ID: R136RXX-0088

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.069	3.596	0.116	2759.5	0.013	0.056	1.098

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.88			
Avg Cell Temp (degF)	74.98			
Dew Point (degF)	49.99			
Specific Humidity (grains/lbm)	55.47			
NOx Corr Factor	0.9159			
CO2 Dilution Factor	12.992			
CFV Vmix (scf @68F)	5419.36			

CVS Flow Rate Avg (scfm) 540.31

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	601.79
Distance (miles)	7.990
Bag Analysis Time (secs)	74.6

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Thur 6/7/2012 3:18:07 PM
Subject: RE: Test data for in-use vehicle R136-0088
sebastian.berenz@vw.com

Hello Lynn,

Thank you for the test data.

The test results look pretty good and the car passed the standards

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, June 07, 2012 10:33 AM
To: Berenz, Sebastian (EEO)
Subject: Test data for in-use vehicle R136-0088

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: R136RXX-0088.pdf)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 6/13/2012 5:43:47 PM
Subject: Test data for in-use vehicle R136-0014
[R136RXX-0014.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Regards,


Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

Variable Temperature SHED Report

Test: 72 °F - 96 °F for 48 Hours

Test No: 2012-0218-004

Mfr: 00590 VID: R136RXX-0014 Config: 00

Test Purpose	22	VTSHED#	VT2
Test Procedure	23	SHED Net Volume, m ³	68.524
Fuel Type	61 Tier 2 Cert Test Fue	Requester	L. SOHACKI
Technician_Name	meador	Validators Initials	

DIURNAL AND TOTAL EVAPORATIVE EMISSIONS

Started (D@T)	06/06/2012 @ 14:26	Finished (D@T)	06/08/2012 @ 14:26
Start Temp (°F)	72.00	Test Length (hrs)	48
Day 1 Total (gHC)	0.289351	Diurnal (gHC)	0.289351
Day 2 Total (gHC)	0.221909	Hot_Soak_HC_(g)	0.037542
Day 3 Total (gHC)	0	Total Emissions (gHC)	0.326893


DIURNAL EVAPORATIVE EMISSION DETAILS

T_i (°C)	22.21	Pb_i (kPa)	98.771
Chc_i (ppmC)	3.15	Mhc_i (gms)	0.123865
Mhc_in_i (gms)	0	Mhc_out_i (gms)	0
Sample TS i	2012/06/06 @ 14:26		
T_24 (°C)	22.23	Pb_24 (kPa)	98.841
Chc_24 (ppmC)	10.41	Mhc_24 (gms)	0.413216
Mhc_in_24 (gms)	0.005239	Mhc_out_24 (gms)	0.008853
Sample TS 24	2012/06/07 @ 14:26	Mhc_24 - Mhc_i (gms)	0.289351
T_48 (°C)	22.17	Pb_48 (kPa)	98.626
Chc_48 (ppmC)	15.659999	Mhc_48 (gms)	0.635126
Mhc_in_48 (gms)	0.010109	Mhc_out_48 (gms)	0.030259
Sample TS 48	2012/06/08 @ 14:26	Mhc_48 - Mhc_24 (gms)	0.221909

FTP TID: 002 - Hot Soak TID: 002

QC Note: All Automated Quality Checks Passed

Cert

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0218-002			Vehicle ID: R136RXX-0014				
	Test Information		Test Date: 6/5/2012		MFR Name: VOLKSWAGEN		
	Key Start / Hot Soak: 13:15:21 / 09:38		MFR Codes: 590		VWX		
	Fuel Container ID: F00023		Config #: 00				
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO				
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005				
	Calculation Method: Gasoline		Beginning Odometer: 028887.0 MI				
Pretest Remarks:			Drive Schedule: ftp3bag		Soak Period: 21.4 hours		
<hr/>							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	7.589	68.280	0.392	0.845	2.410		
Ambient	3.200	0.390	0.016	0.043	1.906		
Net Concentration	4.592	67.915	0.377	0.805	0.625	3.906	
Remarks:							
Phase 2							
Sample	3.265	5.729	0.045	0.546	1.850		
Ambient	3.256	0.372	0.009	0.042	1.890		
Net Concentration	0.142	5.373	0.036	0.506	0.038	0.100	
Remarks:							
Phase 3							
Sample	3.259	7.175	0.060	0.733	1.939		
Ambient	3.099	0.614	0.016	0.043	1.902		
Net Concentration	0.330	6.594	0.045	0.692	0.141	0.176	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: This test has SHED results. SHED Test Number = 2012-0218-002							
<hr/>							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.068	2.020	0.017	376.0	0.011	0.058	23.525
Phase 2	0.003	0.255	0.003	377.1	0.001	0.002	23.641
Phase 3	0.005	0.195	0.002	322.0	0.002	0.003	27.688
Weighted	0.01708	0.60445	0.00534	361.751	0.00340	0.01386	
<hr/>							
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	23.47	Dyno #: D002					
Phase 2	23.59	Inertia: 3625					
Phase 3	27.62	EPA Set Co A: 11.46					
		EPA Set Co B: 0.1076					
		EPA Set Co C: 0.01864					
Weighted	24.53	Emiss-Bench: D002					

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0218-002

Vehicle ID: R136RXX-0014


Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.243	7.250	0.060	1349.7	0.038	0.207	1.098
Phase 2	0.013	0.983	0.010	1454.0	0.004	0.009	
Phase 3	0.017	0.702	0.007	1156.7	0.009	0.009	



Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.05	29.05	29.05	
Avg Cell Temp (degF)	75.04	75.02	75.18	
Dew Point (degF)	49.19	49.17	49.09	
Specific Humidity (grains/lbm)	53.51	53.48	53.31	
NOx Corr Factor	0.9083	0.9081	0.9075	
CO2 Dilution Factor	15.723	24.492	18.257	
CFV Vmix (scf @68F)	3237.66	5550.02	3227.07	
CVS Flow Rate Avg (scfm)	383.46	382.67	382.58	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.60	870.20	506.10	
Distance (miles)	3.590	3.855	3.592	
Bag Analysis Time (secs)	79.0	74.0	76.0	

Cert

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2012-0218-006		Vehicle ID: R136RXX-0014					
	Test Date: 6/11/2012		MFR Name: VOLKSWAGEN				
	Key Start: 14:15:42		MFR Codes: 590 VWX				
	Fuel Container ID: F00023		Config #: 00				
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO				
	Test Procedure: 90 US06 (us06warmup_us06)		Shift Schedule: A09980041				
	Calculation Method: Gasoline		Beginning Odometer: 028919.0 MI				
Pretest Remarks:		Drive Schedule: us06_us06					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	3.581	50.862	0.269	1.004	2.081		
Ambient	2.617	1.037	0.024	0.049	1.950		
Net Concentration	1.162	49.903	0.246	0.958	0.278	0.857	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.013	1.123	0.008	338.7	0.004	0.010	26.213
Fuel Economy							
	<u>Gasoline MPG</u>			<u>Dyno Settings</u>		Dyno #: D002	
Phase 1	26.15					Inertia: 3625	
						EPA Set Co A: 11.46	
						EPA Set Co B: 0.1076	
						EPA Set Co C: 0.01864	
						Emiss-Bench: D002	
v120518 - d002 EPAVDAEm120611134448 Page 1 of 2 Print Time 12-Jun-2012 16:05							

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2012-0218-006			Vehicle ID: R136RXX-0014				
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.103	8.971	0.067	2706.3	0.029	0.076	1.098


<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.96			
Avg Cell Temp (degF)	75.20			
Dew Point (degF)	50.14			
Specific Humidity (grains/lbm)	55.65			
NOx Corr Factor	0.9166			
CO2 Dilution Factor	13.278			
CFV Vmix (scf @68F)	5452.55			
CVS Flow Rate Avg (scfm)	543.62			
Fan Placement: USO6 Only - One Large Fan - Up - Front				
Phase Time (secs)	601.81			
Distance (miles)	7.991			
Bag Analysis Time (secs)	75.1			

v120518 - d002 EPAVDAEm120611134448

Page 2 of 2

Print Time 12-Jun-2012 16:05

Cert

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0218-005			Vehicle ID: R136RXX-0014				
	Test Information		Test Date: 6/11/2012		MFR Name: VOLKSWAGEN		
			Key Start: 13:19:08		MFR Codes: 590 VWX		
	Fuel Container ID: F00023				Config #: 00		
	Fuel Type: 61 Tier 2 Cert Test Fuel				Transmission: AUTO		
	Test Procedure: 03 HWFET (hwfetprep_hwfet)				Shift Schedule: A09980011		
	Calculation Method: Gasoline				Beginning Odometer: 028898.0 MI		
Pretest Remarks:			Drive Schedule: hwfet_hwfet				
<hr/>							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.222	29.052	0.423	1.510	2.001		
Ambient	2.624	0.482	0.013	0.045	1.917		
Net Concentration	0.895	28.624	0.412	1.470	0.300	0.565	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.004	0.282	0.006	227.5	0.002	0.003	39.153
<hr/>							
Fuel Economy		<u>Gasoline MPG</u>	<u>Dyno Settings</u>		Dyno #: D002		
Phase 1	39.06				Inertia: 3625		
					EPA Set Co A: 11.46		
					EPA Set Co B: 0.1076		
					EPA Set Co C: 0.01864		
					Emiss-Bench: D002		

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0218-005

Vehicle ID: R136RXX-0014

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.045	2.897	0.063	2338.2	0.017	0.028	1.098

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.98			
Avg Cell Temp (degF)	75.09			
Dew Point (degF)	49.98			
Specific Humidity (grains/lbm)	55.27			
NOx Corr Factor	0.9151			
CO2 Dilution Factor	8.858			
CFV Vmix (scf @68F)	3070.03			

CVS Flow Rate Avg (scfm) 240.79

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.00
Distance (miles)	10.278
Bag Analysis Time (secs)	76.9



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

August 1, 2012

OFFICE OF
AIR AND RADIATION

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Mr. Reineke;

The Environmental Protection Agency plans to include a Volkswagen Passat in its coast down surveillance testing program. The testing is tentatively scheduled for the week ending September 21, 2012.

A 2012 model year, low mileage vehicle will be procured, EPA's contractor URS will perform a maintenance on the vehicle and it will be ballasted to the proper weight. Maintenance will consist of an under-hood inspection and review of on-board computer codes as well as a wheel alignment, if necessary.

Coast down testing will take place on a track. Once the dyno coefficients have been established, the vehicle may also undergo a federal test procedure and highway cycle.

If you have any questions please contact me at (734) 214-4851.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lynn Sohacki".

Lynn Sohacki
Compliance Division

Enclosure

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 8/2/2012 5:44:38 PM
Subject: RE: Notification of a new in-use surveillance coast down test class R309
Garett.Horton@vw.com
sebastian.berenz@vw.com

Hi, Sebastian.

I will request for our records to be changed to indicate that Mr. Garrett Horton is the new contact.

Regarding the testing, we are going to do the testing off site and we will be testing several vehicles from different manufacturers during the same timeframe. Therefore, we are not inviting manufacturers to be present for the coast down testing.

I will be sending you a modified parameter sheet, however, with the VIN on it so that you will know which vehicle we will be testing.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 08/02/2012 01:37 PM
Subject: RE: Notification of a new in-use surveillance coast down test class R309

Hello Lynn,

Thank you very much for letting me know.

We will assist you with the vehicle and would like to come in on this day.

Also please do me a favor and change the name for any purposes from Mr. Dennis Reineke to Mr. Garrett Horton in the future.

Garrett will be our permanent contact for our group.

Mr. Garrett Horton

Engineering Analyst
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone: (248) 754-4231
Cell: (814) 414-1387
Fax: (248) 754-4207
E-Mail: Garrett.Horton@vw.com

Thank you very much and let me know when the vehicle comes in.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, August 02, 2012 11:53 AM
To: Berenz, Sebastian (EEO)
Subject: Notification of a new in-use surveillance coast down test class R309

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance coast down test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: Coastdown Passat-R309-NOTIF.pdf)

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 9/6/2012 4:54:11 PM
Subject: Re: In-use coastdown vehicle scheduled for the week ending 9/21

Hi, Sebastian.

Next Tuesday will be fine.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 09/06/2012 11:43 AM
Subject: Re: In-use coastdown vehicle scheduled for the week ending 9/21

Hello Lynn,

Thank you very much for the information.
I am currently out of office and will get the data ready for you by tuesday next week.

I hope this is ok.

Best regards,

Sebastian

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, September 06, 2012 11:01 AM
To: Berenz, Sebastian (EEO)
Subject: In-use coastdown vehicle scheduled for the week ending 9/21

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled:

R309/0062 (2012 VW/Passat) - Ex. 6

Please use the form to send testing information to me for these vehicles before pick-up.

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent

directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: coastdown parameters form.xlsx)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Tue 9/11/2012 3:36:10 PM
Subject: EPA cost down program
[coastdown parameters form](#) **Ex. 6** [xlsx](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find all the data required for the cost down test.

By now I got all the data ready for you. If you don't hear anything back from me this data is correct and Germany confirmed it. If not I will send you an update within the next few days.

I also checked the data on the vehicle and found that it is equipped with 215/55 R17 tires. The vehicle we rolled during the certification process had 215/60 R16 tires. That might cause different results.

In case you want to change the tires we can assist and provide some for you.

Vehicle specs:

MY2012 Passat Comfort PZEV

CVWXV02.5259

Engine – CBUA 2.5L 170hp

Transmission - MAN 125 A6F

Tires - All-weather tires 215/55 R17 94H (NAR)

Let me know if you need any further information or any assistance.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 9/11/2012 6:08:28 PM
Subject: Re: FW: EPA cost down program
sebastian.berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Thank you, Sebastian.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 09/11/2012 01:54 PM
Subject: FW: EPA cost down program

Hello Lynn,

Sorry, but I misunderstood the sheet.
I just took some time and look the data over.

The data in the sheet was always the data of the vehicle you will test. The only thing I was wrong on was the tire, I thought you want the original tire we used during the certification process.
So I changed the sheet according to the tire spec. Everything else is good to go.

Let me know if there is anything else.

Please use the attached file.

Best regards,

Sebastian Berenz

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<http://www.volkswagen.com>

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From: Berenz, Sebastian (EEO)
Sent: Tuesday, September 11, 2012 8:36 AM
To: Lynn Sohacki (Sohacki.Lynn@epamail.epa.gov)
Subject: EPA cost down program

Hello Lynn,

Attached you will find all the data required for the cost down test.
By now I got all the data ready for you. If you don't hear anything back from me this data is correct and Germany confirmed it. If not I will send you an update within the next few days.

I also checked the data on the vehicle and found that it is equipped with 215/55 R17 tires. The vehicle we rolled during the certification process had 215/60 R16 tires. That might cause different results.
In case you want to change the tires we can assist and provide some for you.

Vehicle specs:
MY2012 Passat Comfort PZEV
CVWXV02.5259
Engine – CBUA 2.5L 170hp
Transmission - MAN 125 A6F
Tires - All-weather tires 215/55 R17 94H (NAR)

Let me know if you need any further information or any assistance.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

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Auburn Hills, MI 48326
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<http://www.volkswagen.com>

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[attachment "coastdown parameters form_ **Ex. 6** .xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/12/2012 3:37:50 PM
Subject: Re: EPA cost down program
sebastian.berenz@vw.com

Thanks, Sebastian.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 09/12/2012 11:19 AM
Subject: EPA cost down program

Hello Lynn,

I have an update from Germany for this vehicle. The weight wasn't correct on the first sheet.

Sorry about that.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
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United States of America

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
[attachment "coastdown parameters form_ **Ex. 6** 2.xlsx" deleted by Lynn
Sohacki/AA/USEPA/US]

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 9/20/2012 7:12:56 PM
Subject: Please give me a call when you have a chance.

Hi, Sebastian.

Please call me when you have a chance about the coastdown program

Thanks!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA;"Berenz, Sebastian [Sebastian.Berenz@vw.com];
Berenz, Sebastian [Sebastian.Berenz@vw.com]
From: Justin Wiseman
Sent: Wed 10/31/2012 3:23:42 PM
Subject: Procurement of the VW Routan [Ex. 6]

Lynn, I have asked Sebastian from Volkswagen to contact the owner of [Ex. 6] and work to procure this vehicle for testing at the Chrysler Proving Grounds once it has been returned. We wanted to make the EPA aware of our intent to contact the owner in case they should contact you or URS.

Please advise when this vehicle is released back to the owner by the EPA/URS.

Thank you,

Justin G. Wiseman

In Use Emissions & Certification Testing

Chrysler Group LLC

Desk 248.512.0309

Description: Description: Description: cid:image001.jpg@01CC46BA.5C0589F0

***** ATTACHMENT NOT DELIVERED *****

This Email message contained an attachment named
image001.jpg
which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at
(866) 411-4EPA (4372). The TDD number is (866) 489-4900.

***** ATTACHMENT NOT DELIVERED *****

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image001.jpg
which may be a computer program. This attached computer program could
contain a computer virus which could cause harm to EPA's computers,
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If the message sender is known and the attachment was legitimate, you
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extension and resend the Email with the renamed attachment. After
receiving the revised Email, containing the renamed attachment, you can
rename the file extension to its correct name.

For further information, please contact the EPA Call Center at
(866) 411-4EPA (4372). The TDD number is (866) 489-4900.

***** ATTACHMENT NOT DELIVERED *****

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Fri 11/16/2012 3:38:58 PM
Subject: EPA Surveillance Program AVWXV02.0U5N
sebastian.berenz@vw.com

Hello Lynn,

In regards to our telephone call earlier today:

Our entire in-use group will be leaving for annual meetings and trainings in Germany on December 3rd this year. With the holidays we will unfortunately not be available to assist with any inspections or provide technical assistance during this time.

Any time after the new year would not be a problem at all. We would like to request the start date of the program to be sometime in January 2013, if at all possible. This will ensure our immediate assistance in any issues that may occur, resulting in less of an inconvenience to the customer.

Thank you very much for the consideration.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 11/16/2012 3:56:15 PM
Subject: Notification of a new in-use surveillance test class S108
[NOTIF-S-108-Volkswagen.pdf](#)

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF
AIR AND RADIATION

November 13, 2012

Mr. Sebastian Berenz
Volkswagen of America
3800 Hamlin Road
Auburn Hills, Michigan 48326

Dear Mr. Sebastian:

The Environmental Protection Agency will test a 2010 model-year Volkswagen test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of three or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are two wheel drive with selectable four wheel drive or selectable all wheel drive, the vehicles may be tested in either of these modes.

One vehicle may be subjected to an evaporative test per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, reading "Lynn Sohacki", is positioned above the printed name.

Lynn Sohacki
Compliance Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	AVWXV02.0U5N
<u>Estimated Start Date</u>	Week-ending 12/21/12
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214-4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	S108/S109 (low-mileage / high-mileage)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Fri 11/16/2012 4:09:24 PM
Subject: RE: EPA Surveillance Program AVWXV02.0U5N
sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>
[image001.gif](#)

Hello Lynn,

Thank you very much we would highly appreciate that.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, November 16, 2012 11:08 AM
To: Berenz, Sebastian (EEO)
Subject: Re: EPA Surveillance Program AVWXV02.0U5N

Hi, Sebastian.

Let me forward this to URS which is responsible for scheduling the classes. I will request a January date for the start of the program and I'll get back to you.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---11/16/2012 10:39:10 AM---Hello Lynn, In regards to our telephone call earlier today:

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 11/16/2012 10:39 AM
Subject: EPA Surveillance Program AVWXV02.0U5N

Hello Lynn,

In regards to our telephone call earlier today:

Our entire in-use group will be leaving for annual meetings and trainings in Germany on December 3rd this year. With the holidays we will unfortunately not be available to assist with any inspections or provide technical assistance during this time.

Any time after the new year would not be a problem at all. We would like to request the start date of the program to be sometime in January 2013, if at all possible. This will ensure our immediate assistance in any issues that may occur, resulting in less of an inconvenience to the customer.

Thank you very much for the consideration.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

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3800 Hamlin Road
Auburn Hills, MI 48326
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Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Fri 1/11/2013 2:02:54 PM
Subject: RE: In-use vehicles scheduled for next week
parameters form **Ex. 6** S109RXX-0034.xlsx
parameters form S108RXX-0014.xlsx
parameters form S108RXX-0047.xlsx
Sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the test requests for the three cars you bring in next week.

I filled everything out and we will instruct URS how to deactivate the ABS system to operate the vehicle on the dyno and how to drain the vehicles and refill.

All cars do not need any canister loading, since they are Diesel vehicles.

It would be great if URS could let us when we can come in to inspect the cars in Ann Arbor.

Please let me know if you have any questions.

Thank you very much.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

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E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 09, 2013 12:00 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN#	Ex. 6	0700 Vehicle Pick up on 1/15/13 (Tuesday)
S109RXX-0034 (2010 VW/Jetta) - VIN#		0900 Vehicle Pick up on 1/6/13 (Wednesday)
S108RXX-0014 (2010 VW/Jetta) - VIN#		0900 Vehicle Pick up on 1/17/13 (Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)



EPA Surveillance Program

AVWXV02.05UN

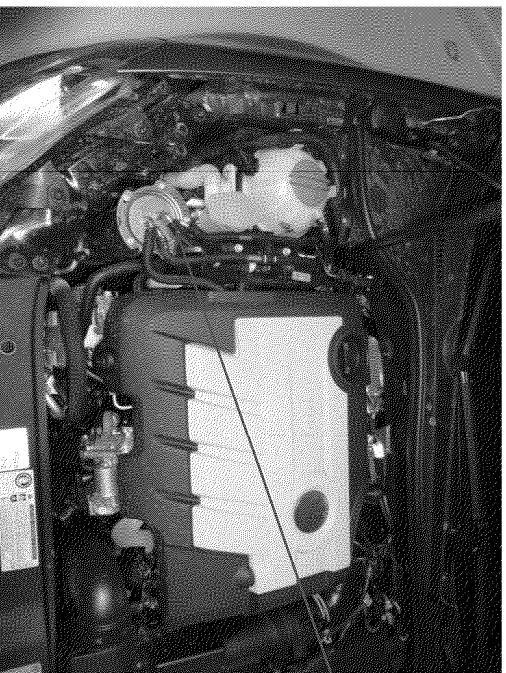
2.0 TDI M2010

Engineering & Environmental Office

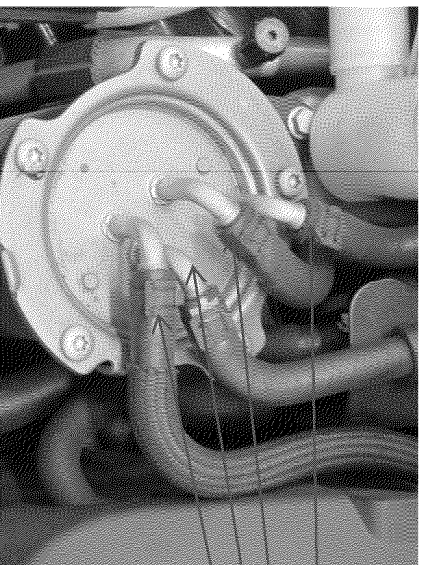


Fuel drain and refill

2.0 TDI M2010

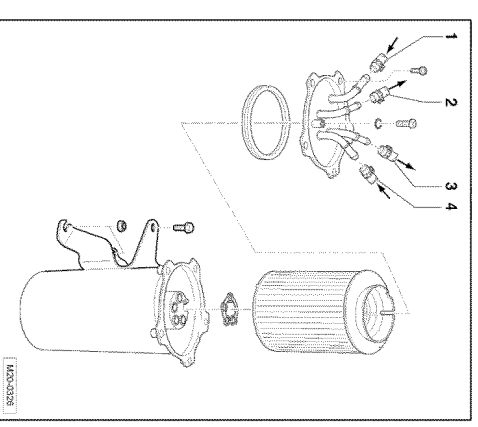


Diesel fuel filter in the engine compartment.



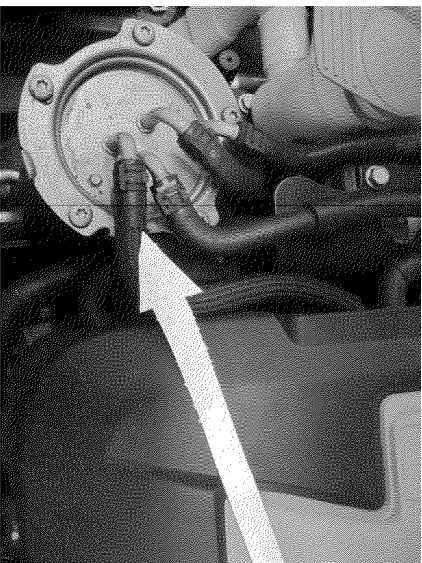
Fuel lines and fuel return lines

1. From Fuel Tank - Black
2. To Fuel Tank - Blue
3. To Auxiliary Fuel Pump - White
4. From Fuel Rail - Blue

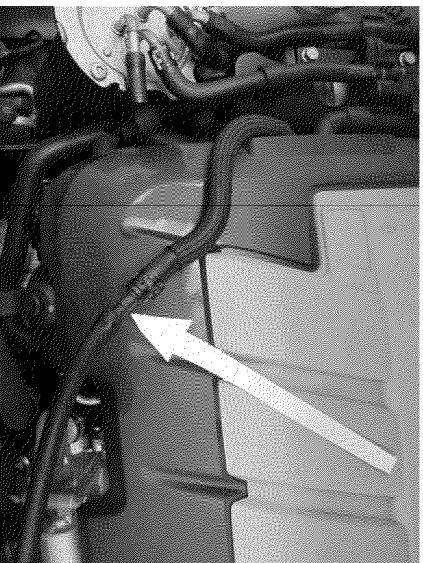


Fuel drain and refill

2.0 TDI M2010



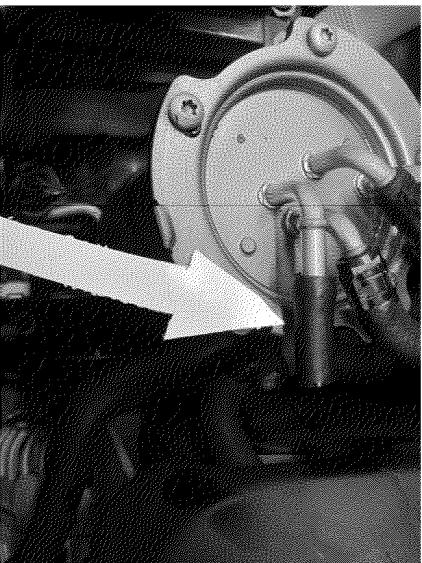
Loosen the clamp and unhook the return line.



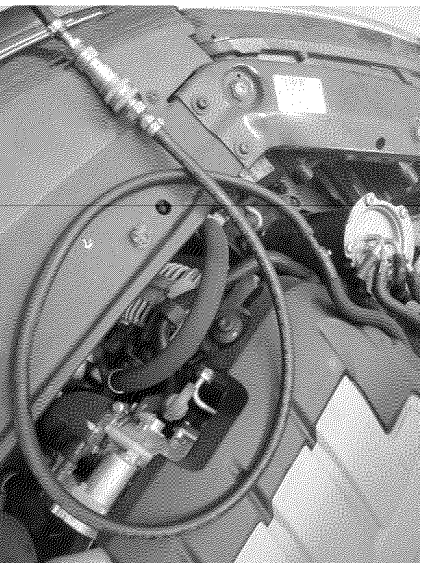
Hook up a line to your drain container.

Fuel drain and refill

2.0 TDI M2010



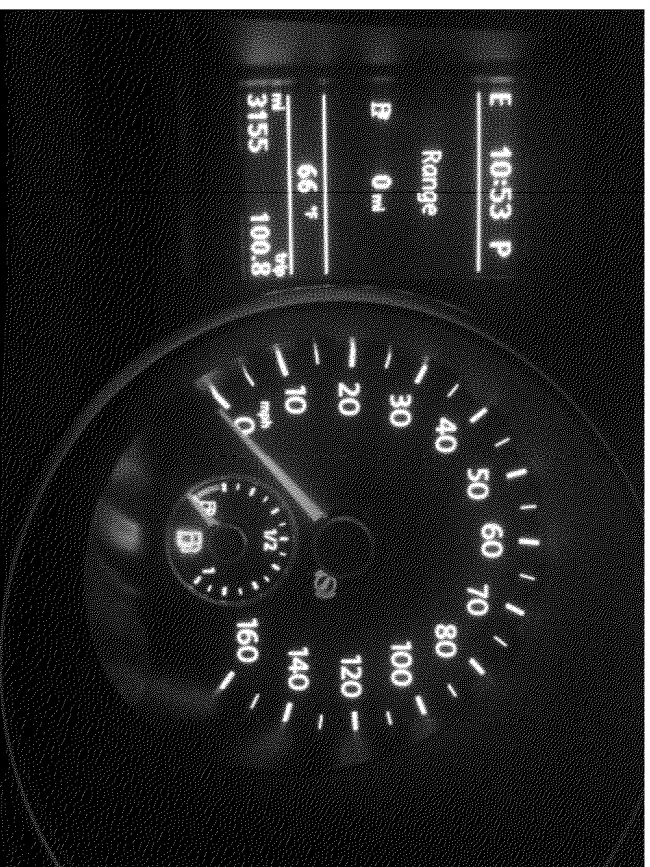
Seal the connection on the Diesel fuel filter to avoid any fuel spilling out.



Start engine and begin the system drain.

Fuel drain and refill

2.0 TDI M2010



Once zero miles is indicated in range display, you have one minute to shut off the engine.

Stalling the engine must absolutely be avoided.

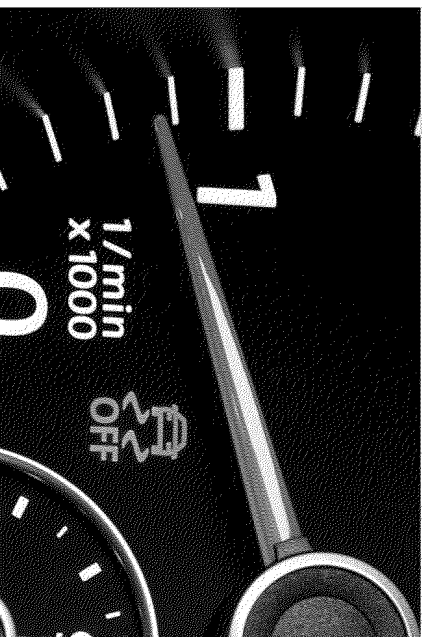
In the event of the engine stalling air will be introduced to the fuel system.

ESP deactivation

2.0 TDI M2010

IMPORTANT: This procedure must be repeated with every key cycle (engine off).

1. Remove foot from brake. Make sure all doors are closed during the procedure.
2. Key on with transmission in “P” (park) for 5 seconds.
 - a) In case of manual transmission remove from gear.
3. Turn hazard lights on for 5 seconds.
4. Depress and release accelerator pedal 5 times all the way to the floor.
5. Look for solid ESP symbol.



6. If ESP symbol is solid, the engine must be started within 5 seconds.
7. Proceed with testing. Hazards can be turned off once engine is running.

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Bernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Mon 1/14/2013 4:31:35 PM
Subject: RE: In-use vehicles scheduled for next week

[ESP_ABS deactivation.pdf](#)
[DrainRefill and ESP deactivation.pdf](#)
Sebastian.berenz@vw.com
Sebastian.berenz@vw.com
<http://www.volkswagen.com>
Sohacki.Lynn@epamail.epa.gov
<mailto:Sohacki.Lynn@epamail.epa.gov>
Liebner.Bernd@epamail.epa.gov
Sebastian.Berenz@vw.com
Sebastian.berenz@vw.com
<http://www.volkswagen.com>
Sohacki.Lynn@epamail.epa.gov
<mailto:Sohacki.Lynn@epamail.epa.gov>
[image001.gif](#)

Hello Lynn,

hello Bernd,

Attached you will find an additional document that backs up the deactivation process of the ESP/ABS system of the cars you will test shortly.

I will bring the documents along and we will instruct the personnel on Tuesday.

The tricky part is, that the procedure needs to be repeated before every time the engine is turned on.

Let me know if you have any questions.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
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FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Berenz, Sebastian (EEO)
Sent: Friday, January 11, 2013 4:07 PM
To: Sohacki.Lynn@epamail.epa.gov
Cc: Liebner.Bernd@epamail.epa.gov
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the instruction to drain and refill the 2.0 TDI.

Also there is another instruction how to deactivate the ESP system. This is quite tricky and we will explain it to URS once we inspect the vehicles. It has to be repeated before every start. So we probably have to instruct a driver and operator too.

I will talk to Ex. 6 and check for the time he want us there.

Have a good weekend.

Best regards,

Sebastian Berenz

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E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 11, 2013 1:28 PM
To: Berenz, Sebastian (EEO)
Cc: Liebner.Bernd@epamail.epa.gov
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

You are welcome to the maintenance, as usual. Has **Ex. 6** of URS called you about the the times for the maintenances yet?

I understand that you will instruct URS how to deactivate the ABS system and drain and refill the vehicles. We would also like to have written instructions that we can post in the vehicles and refer to if we have questions. I do not need these before the maintenances but please bring them with you when you come for the maintenances.

Have a great weekend!

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---01/11/2013 09:03:59 AM---Hello Lynn, Attached you will find the test requests for the three cars you bring in next week.

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 01/11/2013 09:03 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test requests for the three cars you bring in next week.

I filled everything out and we will instruct URS how to deactivate the ABS system to operate the vehicle on the dyno and how to drain the vehicles and refill.
All cars do not need any canister loading, since they are Diesel vehicles.

It would be great if URS could let us when we can come in to inspect the cars in Ann Arbor.

Please let me know if you have any questions.

Thank you very much.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

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FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 09, 2013 12:00 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN#	Ex. 6	0700 Vehicle Pick up on 1/15/13 (Tuesday)
S109RXX-0034 (2010 VW/Jetta) - VIN#		0900 Vehicle Pick up on 1/6/13 (Wednesday)
S108RXX-0014 (2010 VW/Jetta) - VIN#		0900 Vehicle Pick up on 1/17/13 (Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)[attachment "parameters form_ **Ex. 6** S109RXX-0034.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_ **Ex. 6** S108RXX-0014.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_ **Ex. 6** S108RXX-0047.xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

AVWXV02.05UN

2.0 TDI M2010

ESP/ABS deactivation

IMPORTANT:

This procedure must be repeated with every key cycle (engine off).

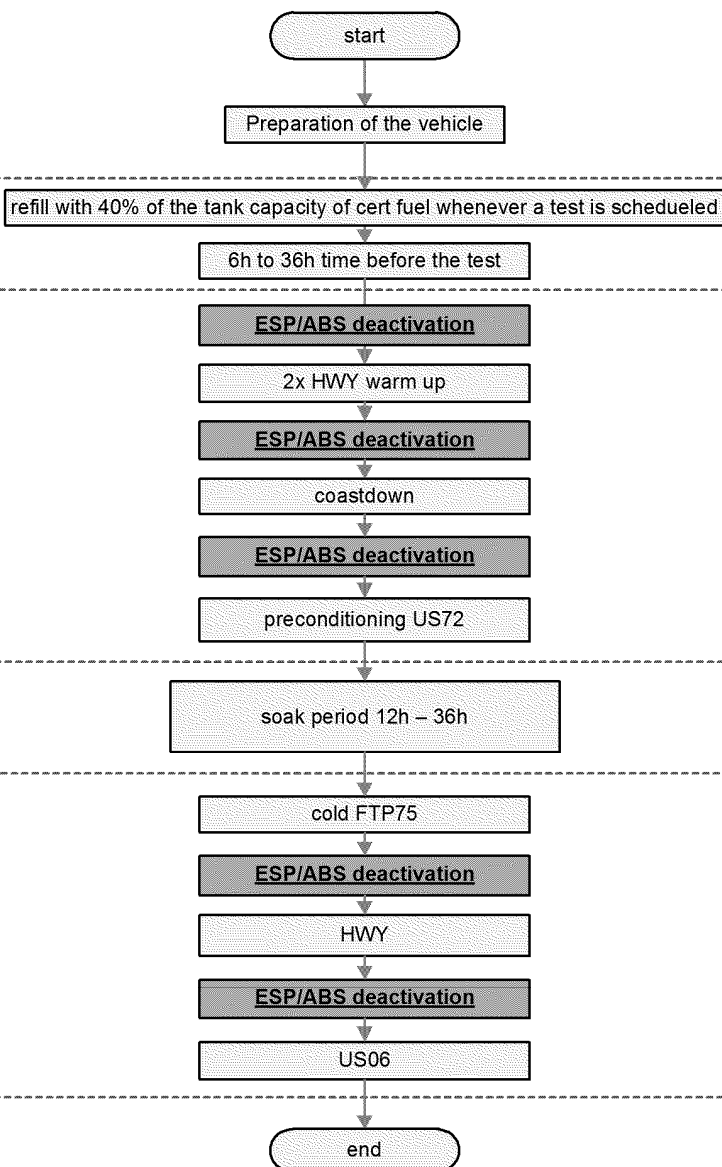
Don't open the driver door while the procedure is active. It will interrupt the EPS/ABS deactivation.

- ** Remove foot from brake. Make sure all doors are closed during the procedure.
- ** Key on with transmission in "P" (park) for 5 seconds.
- ** In case of manual transmission remove from gear.
- ** Turn hazard lights on for 5 seconds.
- ** Depress and release accelerator pedal 5 times all the way to the floor.
- ** Look for solid ESP symbol.
- ** If ESP symbol is solid, the engine must be started within 5 seconds.
- ** Proceed with testing. Hazards can be turned off once engine is running.

Contractor at EPA shop

EPA laboratory

Contractor at EPA shop



To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
Cc: "Glas, Tobias (EASZ/1)" [tobias.glas@volkswagen.de]; Horton, Garrett" [Garrett.Horton@vw.com]
From: "Berenz, Sebastian (EEO)"
Sent: Wed 1/16/2013 1:54:32 PM
Subject: EPA Surveillance Program AVWXV02.0U5N
[DrainRefill and ESP deactivation.pdf](#)
[ESP_ABS deactivation.pdf](#)
Sebastian.berenz@vw.com

Hello Lynn,

Hello Bernd,

Here is the revision of the presentations that will explain the deactivation of the ESP/ABS system of the cars you will test shortly. I made all the change that were discussed yesterday.

Let me know if there is nay questions.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

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EPA Surveillance Program

AVWXV02.0U5N

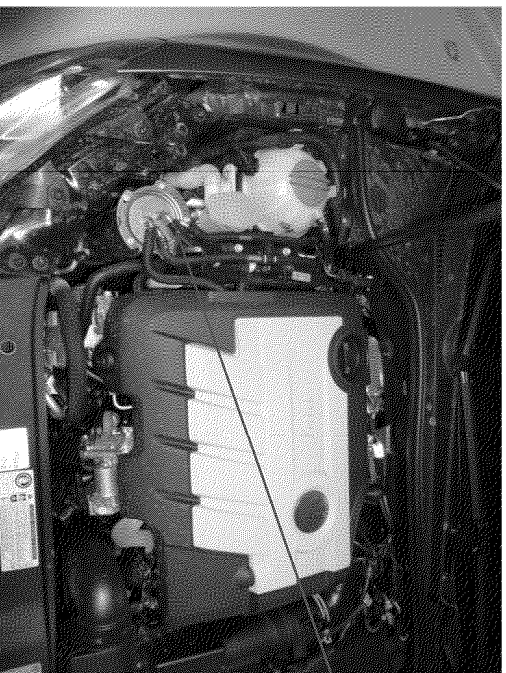
2.0 TDI M2010

Engineering & Environmental Office

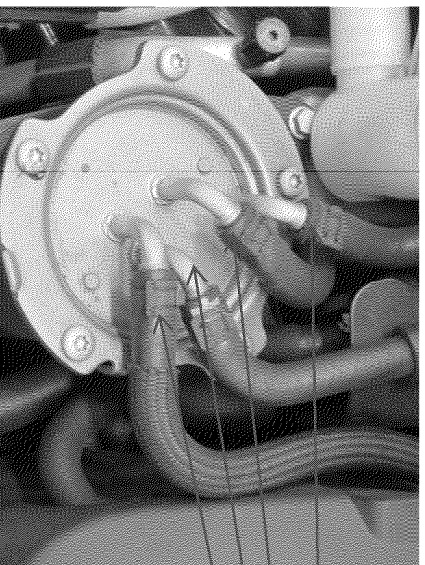


Fuel drain and refill

2.0 TDI M2010

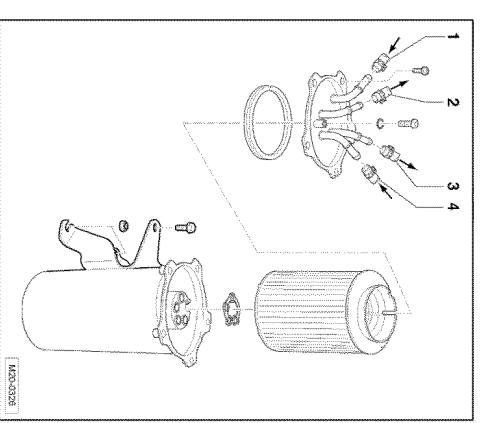


Diesel fuel filter in the engine compartment.



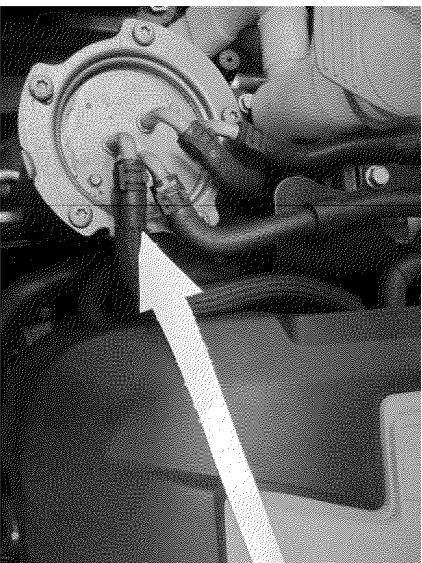
Fuel lines and fuel return lines

1. From Fuel Tank - Black
2. To Fuel Tank - Blue
3. To Auxiliary Fuel Pump - White
4. From Fuel Rail - Blue

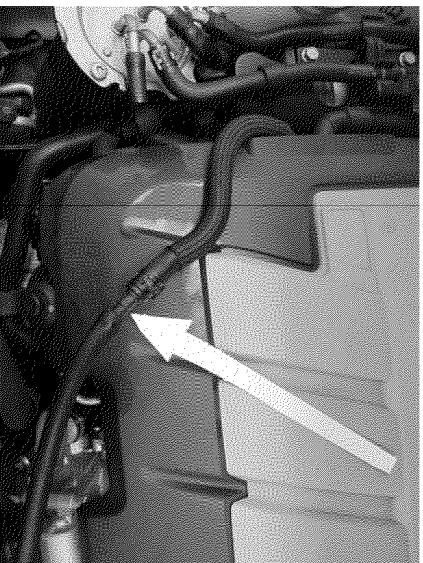


Fuel drain and refill

2.0 TDI M2010



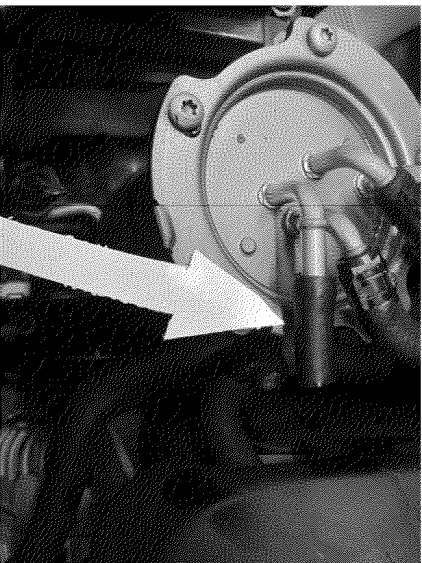
Loosen the clamp and unhook the return line.



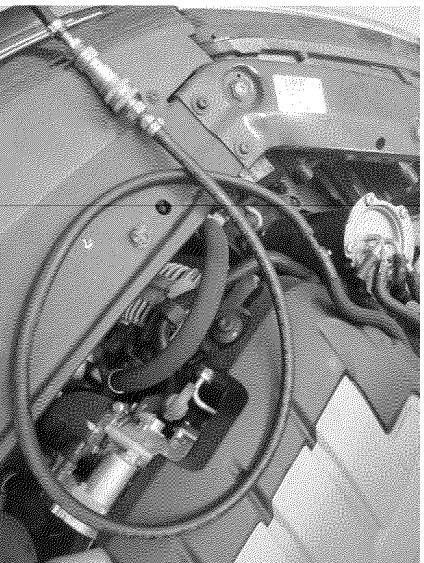
Hook up a line to your drain container.

Fuel drain and refill

2.0 TDI M2010



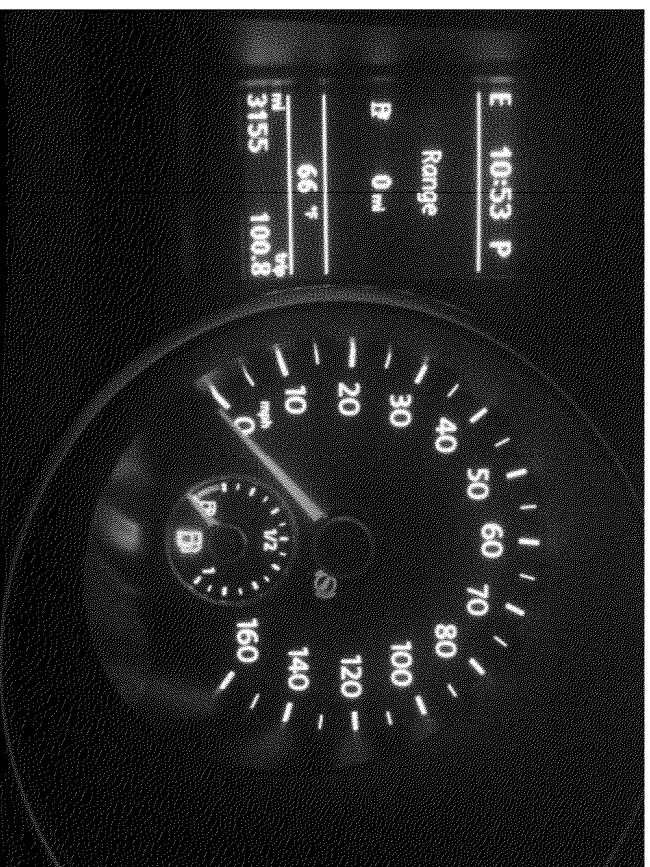
Seal the connection on the Diesel fuel filter to avoid any fuel spilling out.



Start engine and begin the system drain.

Fuel drain and refill

2.0 TDI M2010



Once zero miles is indicated in range display, you have one minute to shut off the engine.

Stalling the engine must absolutely be avoided.

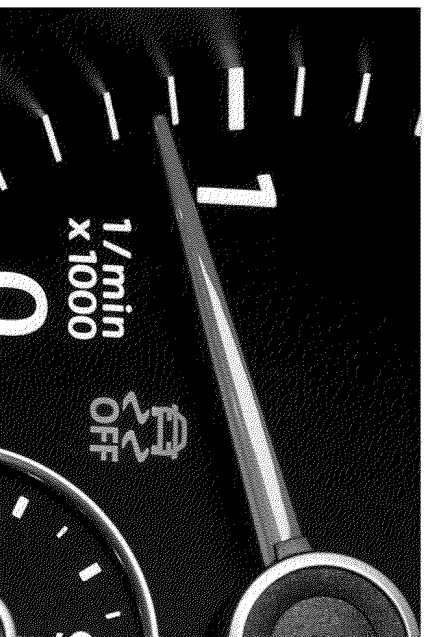
In the event of the engine stalling air will be introduced to the fuel system.

ESP deactivation

2.0 TDI M2010

IMPORTANT: This procedure must be repeated with every key cycle (engine off).

1. Remove foot from brake. Make sure all doors are closed during the procedure.
2. Key on with transmission in “P” (park) for 5 seconds. **Do not start engine!!!**
 - a) In case of manual transmission remove from gear.
3. Turn on hazard lights, immediately after 5 flashes proceed to next step.
4. Depress and release accelerator pedal 5 times all the way to the floor.
5. Look for solid ESP symbol. **Should not blink!!!**



6. If ESP symbol is solid, depress brake (and clutch) and continue with starting the engine. The engine **must be started** within 5 seconds.
7. Proceed with testing.
8. Hazards can be turned off once engine is running. ESP symbol will disappear after

6

AVWXV02.0U5N

2.0 TDI M2010

IMPORTANT:

This procedure must be repeated with every key cycle (engine off).

Don't open the driver door while the procedure is active. It will interrupt the EPS/ABS deactivation.

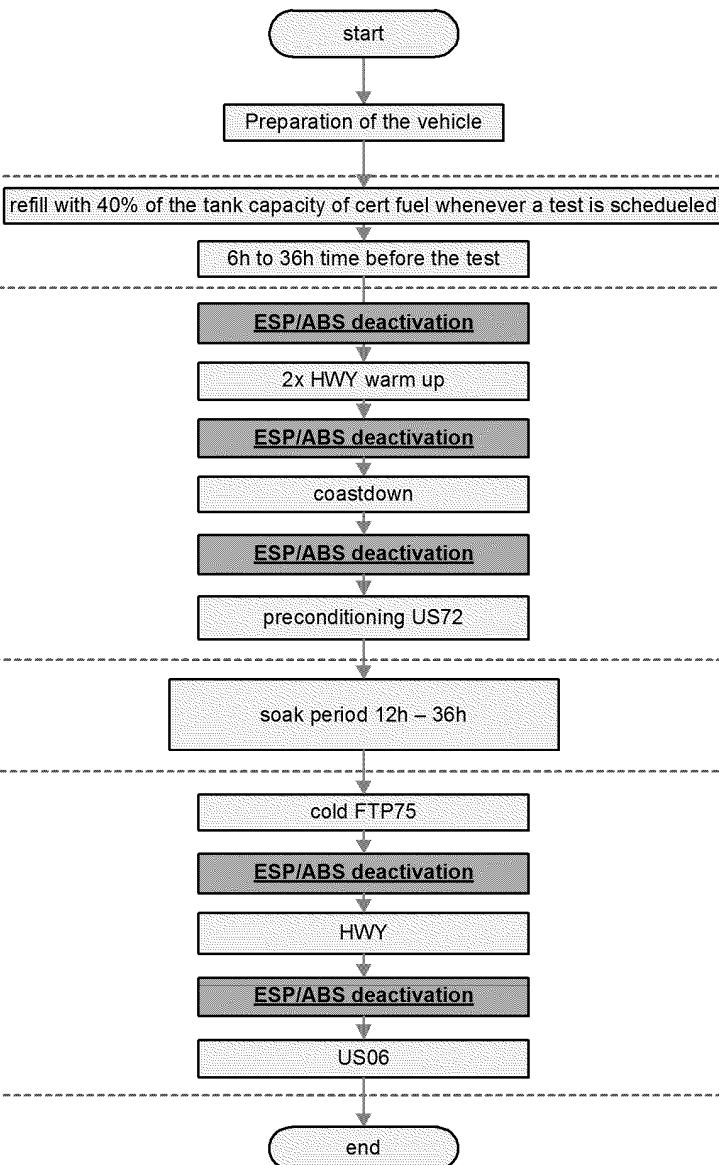
ESP/ABS deactivation

- Remove foot from brake. Make sure all doors are closed during the procedure.
- Key on with transmission in "P" (park) for 5 seconds. **Do not start engine!!!!**
- In case of manual transmission remove from gear.
- Turn on hazard lights, immediately after 5 flashes proceed to next step.
- Depress and release accelerator pedal 5 times all the way to the floor.
- Look for solid ESP symbol. **Should not blink!!!**
- If ESP symbol is solid, depress brake (and clutch) and continue with starting the engine. The engine must be started within 5 seconds.
- Proceed with testing.
- Hazards can be turned off once engine is running. ESP symbol will disappear after hazards are turned off.

Contractor at EPA shop

EPA laboratory

Contractor at EPA shop



To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Mon 1/28/2013 10:01:02 PM
Subject: RE: Test data for in-use vehicle S108-0047
Sebastian.berenz@vw.com

Thanks for the information.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, January 28, 2013 3:49 PM
To: Berenz, Sebastian (EEO)
Subject: Test data for in-use vehicle S108-0047

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: S108RXX-0047.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Wed 2/6/2013 9:22:20 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities

Sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
Sebastian.berenz@vw.com
<http://www.volkswagen.com>
Sohacki.Lynn@epamail.epa.gov
mailto:Sohacki.Lynn@epamail.epa.gov
Sebastian.Berenz@vw.com

Ex. 7 @arb.ca.gov
@arb.ca.gov
@arb.ca.gov
@arb.ca.gov

Oliver.Schmidt@vw.com
Stuart.Johnson@vw.com
Tobias.Glas@vw.com
Garett.Horton@vw.com
Matthias.Barke@vw.com
Tobias.Glas@vw.com
Garett.Horton@vw.com
Sebastian.berenz@vw.com
<http://www.volkswagen.com>
[image001.gif](#)

Thanks for the heads-up!

Let me know when you have the results or any questions.

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

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E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:21 PM
To: Berenz, Sebastian (EEO)
Subject: RE: VW/Audi personnel change IUVP responsibilities

Of course. Vehicle S108RXX-0014 tested today. Hopefully we will get the data tomorrow.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---02/06/2013 04:08:59 PM---Thank you very much Lynn. We will work together until the end of march and I had the chance to bring

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/06/2013 04:08 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities

Thank you very much Lynn.

We will work together until the end of march and I had the chance to bring him along when we inspected one of the TDIs at your lab.

So do me a favor and keep us both in the loop for the time being since I just want to finish the TDI surveillance program first.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

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Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:03 PM
To: Berenz, Sebastian (EEO)
Subject: Re: VW/Audi personnel change IUVP responsibilities

Hi, Sebastian.

Thank you for the introduction to Mr. Tobias Glas.

It was great working with you! I wish you the best as you return to Germany.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---02/06/2013 03:55:51 PM---Hello everybody, I just want to inform you that we at VW/Audi have a personnel change for all in-use

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA, JohnH White/AA/USEPA/US@EPA, Bruce Garrison/AA/USEPA/US@EPA, Mark Maury/AA/USEPA/US@EPA, **Ex. 7**
Ex. 7 @arb.ca.gov>, **Ex. 7** @arb.ca.gov>
Cc: "Schmidt, Oliver (EEO)" <Oliver.Schmidt@vw.com>, "Johnson, Stuart (EEO)" <Stuart.Johnson@vw.com>, "Glas, Tobias" <Tobias.Glas@vw.com>, "Horton, Garrett" <Garrett.Horton@vw.com>, "Barke, Matthias" <Matthias.Barke@vw.com>
Date: 02/06/2013 03:55 PM
Subject: VW/Audi personnel change IUVP responsibilities

Hello everybody,

I just want to inform you that we at VW/Audi have a personnel change for all in-use verification program related subjects within the Engineering and Environmental Office.

Mr. Tobias Glas will take over my position as the responsible IUVP specialist for the next few years.

We will work side by side during the next couple weeks and get everything up to speed until I go back to Germany for good in march 2013.

Please contact Tobias in regards of any in-use compliance related subjects.

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com

As a backup you can contact also Mr. Garrett Horton with EEO at VWGoA for any in-use questions.

Garrett Horton
Engineering Analyst
Engineering & Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone: (248) 754-4231
Cell: (248) 797-1198
Fax: (248) 754-4207
E-Mail: Garrett.Horton@vw.com

Thank you very much for all the support during the last couple years. I really enjoyed working with all of you. I am grateful for the opportunities that I had with this position and I am looking forward to start a new project.

Best regards,

Sebastian Berenz

In-Use Emission Compliance Specialist
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA;"Berenz, Sebastian (EEO)"
[Sebastian.Berenz@vw.com]; Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
From: "Glas, Tobias"
Sent: Mon 2/11/2013 6:04:10 PM
Subject: RE: Test data for in-use vehicle S108-0014
Tobias.Glas@vw.com

Hi Lynn !

Thanks for the data, so far everything looks good.

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, February 11, 2013 10:37 AM
To: Berenz, Sebastian (EEO); Glas, Tobias
Subject: Test data for in-use vehicle S108-0014

Hi.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: S108RXX-0014.pdf)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 7/5/2011 2:32:56 PM
Subject: RE: In-use vehicles scheduled for next week
sebastian.berenz@vw.com

Thank you, Sebastian.

Ex. 6 will be calling you about scheduling the maintenance.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 07/05/2011 10:27 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached is the data for both cars you will pull in this week.

Let me know when the cars will be in your lab and we come and check them out.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, June 30, 2011 10:18 AM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P156RXX-0091 (2009 VW Jetta)	Ex. 6	to be picked up July 7, 2011
P157RXX-0144 (2009 VW Jetta)		TO BE PICKED UP July 6, 2011

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)[attachment "parameters form_P157RXX-0144_Ex. 6.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_P156RXX-0091_Ex. 6.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 7/19/2011 8:17:15 PM
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

Thanks for the documents. **Ex. 6** will be calling you about the Touareg next week.

Regarding the 2.5l Jetta, the vehicle has completed testing so I should get the data to you tomorrow.

Take care.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 07/19/2011 04:06 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Thanks for letting me know.

Attached you will find the parameter sheet and the drain procedure for the Touareg. We would like to come over on Tuesday and check the car in.

Probably **Ex. 6** will let me know when he wants us around.

Is there already any update on the 2.5l Jetta MY2009?

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, July 19, 2011 3:34 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0020 (2005 VW/Touareg) - VIN# **Ex. 6** 07/26/11
(Tuesday) 0930 Veh. Pick up.

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

[attachment "Touareg MY05_fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_ **Ex. 6** .xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 7/20/2011 7:43:24 PM
Subject: Test data for in-use vehicle P157-0144
[P157RXX-0144.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C1SD

**NVFEL Laboratory Test Data
Final Laboratory Test Results**

CVS

Test Number: 2011-0260-004

Vehicle ID: P157RXX-0144

Test Information

Test Date: 7/18/2011

MFR Name: VOLKSWAGEN

Key Start: 09:41:19

MFR Codes: 590 VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 90 US06 (us06warmup_us06)

Shift Schedule: A09980041

Calculation Method: Gasoline

Beginning Odometer: 055492.0 MI

Pretest Remarks:

Drive Schedule: us06warmup_us06



Bag Data

Phase 1

	<u>HC-FID</u> (ppmC)	<u>CO</u> (ppm)	<u>NOx</u> (ppm)	<u>CO2</u> (%)	<u>CH4</u> (ppm)	<u>NonMeth HC</u> (ppmC)
Sample	5.226	81.183	1.833	1.188	2.698	
Ambient	2.715	0.367	0.003	0.045	2.003	
Net Concentration	2.753	80.849	1.830	1.147	0.874	1.787

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	<u>HC-FID</u> (gpm)	<u>CO</u> (gpm)	<u>NOx</u> (gpm)	<u>CO2</u> (gpm)	<u>CH4</u> (gpm)	<u>NMHC</u> (gpm)	<u>Vol MPG</u> (mpg)
Phase 1	0.026	1.556	0.053	346.9	0.010	0.017	25.542

Fuel Economy

Gasoline MPG
Phase 1 25.48

Dyno Settings

Dyno #: D001
Inertia: 3625
EPA Set Co A: 12.66
EPA Set Co B: 0.0941
EPA Set Co C: 0.01859

Emiss-Bench: D001

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0260-004

Vehicle ID: P157RXX-0144

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.210	12.461	0.421	2778.0	0.077	0.136	1.106

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.11			
Avg Cell Temp (degF)	74.09			
Dew Point (degF)	49.30			
Specific Humidity (grains/lbm)	53.61			
NOx Corr Factor	0.9087			
CO2 Dilution Factor	11.198			
CFV Vmix (scf @68F)	4674.65			

CVS Flow Rate Avg (scfm) 466.38

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs) 601.40
 Distance (miles) 8.008
 Bag Analysis Time (secs)

CSD

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0260-003

Vehicle ID: P157RXX-0144

Test Information

Test Date: 7/18/2011

MFR Name VOLKSWAGEN

Key Start: 08:54:23

MFR Codes: 590 VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 055471.0 MI

Pretest Remarks:

Drive Schedule: hwfetwarmup_hwfet



Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.971	17.449	0.506	1.093	2.370	
Ambient	2.960	0.300	0.012	0.045	2.056	
Net Concentration	1.253	17.174	0.495	1.052	0.482	0.720

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.008	0.233	0.010	224.1	0.004	0.005	39.759

Fuel Economy

	Gasoline MPG
Phase 1	39.67

Dyno Settings

Dyno #: D001
Inertia: 3625
EPA Set Co A: 12.66
EPA Set Co B: 0.0941
EPA Set Co C: 0.01859

Emiss-Bench: D001

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0260-003

Vehicle ID: P157RXX-0144

Results




	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.086	2.388	0.103	2298.5	0.038	0.050	1.106

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.11			
Avg Cell Temp (degF)	73.55			
Dew Point (degF)	49.63			
Specific Humidity (grains/lbm)	54.29			
NOx Corr Factor	0.9113			
CO2 Dilution Factor	12.236			
CFV Vmix (scf @68F)	4218.38			
CVS Flow Rate Avg (scfm)	330.81			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.20			
Distance (miles)	10.257			
Bag Analysis Time (secs)				

0150

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0260-002			Vehicle ID: P157RXX-0144				
	Test Date: 7/15/2011		MFR Name: VOLKSWAGEN				
	Key Start / Hot Soak: 08:24:23 / 09:31		MFR Codes: 590 VWX				
	Fuel Container ID: F00023		Config #: 00				
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO				
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)		Shift Schedule: A09980005				
	Calculation Method: Gasoline		Beginning Odometer: 055460.0 MI				
Pretest Remarks:			Drive Schedule: ftp3bag				
			Soak Period: 21.6 hours				
Bag Data							
Phase 1	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	13.664	97.426	0.605	0.920	3.163		
Ambient	3.068	0.320	0.009	0.043	2.374		
Net Concentration	10.809	97.128	0.597	0.880	0.954	9.754	
Remarks:							
Phase 2							
Sample	3.095	1.446	0.156	0.610	2.304		
Ambient	3.100	0.418	0.012	0.044	2.376		
Net Concentration	0.136	1.047	0.145	0.568	0.036	0.096	
Remarks:							
Phase 3							
Sample	3.183	10.161	0.166	0.815	2.236		
Ambient	2.882	0.422	0.010	0.044	2.154		
Net Concentration	0.477	9.765	0.157	0.774	0.213	0.241	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.139	2.520	0.023	358.8	0.014	0.125	24.575
Phase 2	0.003	0.043	0.009	370.2	0.001	0.002	24.104
Phase 3	0.006	0.253	0.006	315.4	0.003	0.003	28.261
Weighted	0.03195	0.61491	0.01104	352.779	0.00426	0.02788	
Fuel Economy	<u>Gasoline MPG</u>			<u>Dyno Settings</u>	<u>Dyno #:</u> D001		
Phase 1	24.52			Inertia: 3625			
Phase 2	24.05			EPA Set Co A: 12.66			
Phase 3	28.20			EPA Set Co B: 0.0941			
				EPA Set Co C: 0.01859			
Weighted	25.15			Emiss-Bench: D001			

v101208 - d001

Emission110715081540

Page 1 of 2

Print Time 18-Jul-2011 13:46

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0260-002

Vehicle ID: P157RXX-0144

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.106
Phase 1	0.499	9.054	0.083	1289.1	0.051	0.450	
Phase 2	0.011	0.167	0.034	1426.8	0.003	0.008	
Phase 3	0.022	0.909	0.022	1131.7	0.011	0.011	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.14	29.15	29.15	
Avg Cell Temp (degF)	73.27	73.17	73.37	
Dew Point (degF)	48.69	48.90	48.77	
Specific Humidity (grains/lbm)	52.34	52.74	52.48	
NOx Corr Factor	0.9037	0.9053	0.9043	
CO2 Dilution Factor	14.391	21.951	16.415	
CFV Vmix (scf @68F)	2827.46	4848.40	2823.22	
CVS Flow Rate Avg (scfm)	334.68	334.18	333.91	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.90	870.50	507.30	
Distance (miles)	3.593	3.854	3.588	
Bag Analysis Time (secs)				

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 7/28/2011 1:01:04 PM
Subject: Parameters form for P121RXX-0020 - missing attachments

Hi, Sebastian.

Thank you for the parameters form. Unfortunately, the attachments that are referred to in the parameters form (canister load procedure, ABS disabling, and traction control disabling) did not come through the e-mail as attachments. Please send them so we can test the vehicles properly.

Also, we noticed that this vehicle has a road leveler mechanism. Should this be on or off during the tests?

Thanks in advance for your answers.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 07/19/2011 04:06 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Thanks for letting me know.

Attached you will find the parameter sheet and the drain procedure for the Touareg. We would like to come over on Tuesday and check the car in.
Probably John white will let me know when he wants us around.

Is there already any update on the 2.5I Jetta MY2009?

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road

Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, July 19, 2011 3:34 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0020 (2005 VW/Touareg) - VIN# **Ex. 6** 07/26/11
(Tuesday) 0930 Veh. Pick up.

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)
[attachment "Touareg MY05_fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters

form_ **Ex. 6** .xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 7/28/2011 1:09:17 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0016 (2005 VW/Touareg) - VIN# Ex. 6 08/02/11 (Tuesday) 1000 Veh. Pick up

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

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If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 7/28/2011 7:12:12 PM
Subject: RE: In-use vehicles Touareg

OK.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 07/28/2011 03:09 PM
Subject: RE: In-use vehicles Touareg

Sorry for that Lynn,

That is not necessary. ABS can stay like it is.
Even ESP does not need to be deactivated, because of the permanent all wheel drive and the use of an all wheel drive dyno.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, July 28, 2011 3:05 PM

To: Berenz, Sebastian

Subject: Re: In-use vehicles Touareg

Thanks, Sebastian.

There is also a mention on the parameter form of a document for ABS disabling. Do you have another document for that process?

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 07/28/2011 10:59 AM

Subject: In-use vehicles Touareg

Hello Lynn,

Sorry for responding so late.

Attached you will find the parameter sheet for the car for next week. We will check the car in and I will contact John White to find an appointment.

P121RXX-0016 (2005 VW/Touareg) - VIN#

Ex. 6

<<parameters form_P121RXX-0016.xlsx>>

Also I attach two more documents.

One explains the fuel drain and the canister loading. We already discussed that with the guys in the shop and they have a cable from us to activate the pumps.

<<Touareg MY05_fuel_drain.pdf>>

For the one car with the adjustable air suspension, I created another sheet that shows you how to setup the vehicle for the dyno.

<<Touareg road leveler mechanism.pdf>>

If you have any further questions, please do not hesitate to contact me.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "parameters form_P121RXX-0016.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Touareg MY05_fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Touareg road leveler mechanism.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 8/1/2011 7:58:05 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0016 (2005 VW/Touareg) - VIN# Ex. 6 08/02/11 (Tuesday) 1000 Veh. Pick up

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/2/2011 1:38:26 PM
Subject: Re: FW: In-use vehicles Touareg - P121RXX-0016 (2005 VW/Touareg)
sebastian.berenz@vw.com
<http://www.volkswagen.com>
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Thank you, Sebastian!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 08/01/2011 05:01 PM
Subject: FW: In-use vehicles Touareg - P121RXX-0016 (2005 VW/Touareg)

Hello Lynn,
I just received your email with the Touareg parameter sheet for tomorrow.
Please see my mail from last week. It should contain the parameters for this car.
Also, I will be in your lab tomorrow after lunch and check the Touareg in.
Best regards
Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

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E-Mail: sebastian.berenz@vw.com
<http://www.volkswagen.com>
P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Thursday, July 28, 2011 10:59 AM
To: 'Lynn Sohacki'

Subject: In-use vehicles Touareg

Hello Lynn,

Sorry for responding so late.

Attached you will find the parameter sheet for the car for next week. We will check the car in and I will contact

Ex. 6 to find an appointment.

P121RXX-0016 (2005 VW/Touareg) - VIN#

Ex. 6

<<parameters form_P121RXX-0016.xlsx>>

Also I attach two more documents.

One explains the fuel drain and the canister loading. We already discussed that with the guys in the shop and they have a cable from us to activate the pumps.

<<Touareg MY05_fuel_drain.pdf>>

For the one car with the adjustable air suspension, I created another sheet that shows you how to setup the vehicle for the dyno.

<<Touareg road leveler mechanism.pdf>>

If you have any further questions, please do not hesitate to contact me.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment

"parameters form_P121RXX-0016.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Touareg

MY05_fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Touareg road leveler mechanism.pdf"

deleted by Lynn Sohacki/AA/USEPA/US]


To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/2/2011 2:00:41 PM
Subject: Test data for in-use vehicle P156-0091
[P156RXX-0091.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

CISD

NVFEL Laboratory Test Data							CVS																																		
Final Laboratory Test Results																																									
Test Number: 2011-0259-003		Vehicle ID: P156RXX-0091																																							
	Test Date: 7/26/2011		MFR Name: VOLKSWAGEN																																						
	Key Start: 12:53:14		MFR Codes: 590 VWX																																						
	Fuel Container ID: F00023		Config #: 00																																						
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO																																						
	Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011																																						
	Calculation Method: Gasoline		Beginning Odometer: 025538.0 MI																																						
Pretest Remarks:		Drive Schedule: hwfet_hwfet																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Bag Data</th> <th style="text-align: center;">HC-FID</th> <th style="text-align: center;">CO</th> <th style="text-align: center;">NOx</th> <th style="text-align: center;">CO2</th> <th style="text-align: center;">CH4</th> <th style="text-align: center;">NonMeth HC</th> </tr> <tr> <th style="text-align: left;">Phase 1</th> <th style="text-align: center;">(ppmC)</th> <th style="text-align: center;">(ppm)</th> <th style="text-align: center;">(ppm)</th> <th style="text-align: center;">(%)</th> <th style="text-align: center;">(ppm)</th> <th style="text-align: center;">(ppmC)</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Sample</td> <td style="text-align: center;">3.157</td> <td style="text-align: center;">14.259</td> <td style="text-align: center;">0.591</td> <td style="text-align: center;">1.516</td> <td style="text-align: center;">2.193</td> <td></td> </tr> <tr> <td style="text-align: left;">Ambient</td> <td style="text-align: center;">2.417</td> <td style="text-align: center;">0.376</td> <td style="text-align: center;">0.018</td> <td style="text-align: center;">0.042</td> <td style="text-align: center;">1.920</td> <td></td> </tr> <tr> <td style="text-align: left;">Net Concentration</td> <td style="text-align: center;">1.014</td> <td style="text-align: center;">13.926</td> <td style="text-align: center;">0.575</td> <td style="text-align: center;">1.479</td> <td style="text-align: center;">0.490</td> <td style="text-align: center;">0.476</td> </tr> </tbody> </table>							Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	Sample	3.157	14.259	0.591	1.516	2.193		Ambient	2.417	0.376	0.018	0.042	1.920		Net Concentration	1.014	13.926	0.575	1.479	0.490	0.476
Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC																																			
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)																																			
Sample	3.157	14.259	0.591	1.516	2.193																																				
Ambient	2.417	0.376	0.018	0.042	1.920																																				
Net Concentration	1.014	13.926	0.575	1.479	0.490	0.476																																			
Remarks: Phase 2 Sample Ambient Net Concentration																																									
Remarks: Phase 3 Sample Ambient Net Concentration																																									
Remarks: Phase 4 Sample Ambient Net Concentration																																									
Remarks:																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Results</th> <th style="text-align: center;">HC-FID</th> <th style="text-align: center;">CO</th> <th style="text-align: center;">NOx</th> <th style="text-align: center;">CO2</th> <th style="text-align: center;">CH4</th> <th style="text-align: center;">NMHC</th> <th style="text-align: center;">Vol MPG</th> </tr> <tr> <th></th> <th style="text-align: center;">(gpm)</th> <th style="text-align: center;">(gpm)</th> <th style="text-align: center;">(gpm)</th> <th style="text-align: center;">(gpm)</th> <th style="text-align: center;">(gpm)</th> <th style="text-align: center;">(gpm)</th> <th style="text-align: center;">(mpg)</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Phase 1</td> <td style="text-align: center;">0.005</td> <td style="text-align: center;">0.137</td> <td style="text-align: center;">0.008</td> <td style="text-align: center;">228.0</td> <td style="text-align: center;">0.003</td> <td style="text-align: center;">0.002</td> <td style="text-align: center;">39.101</td> </tr> </tbody> </table>							Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)	Phase 1	0.005	0.137	0.008	228.0	0.003	0.002	39.101											
Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG																																		
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)																																		
Phase 1	0.005	0.137	0.008	228.0	0.003	0.002	39.101																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Fuel Economy</th> <th style="text-align: center;">Gasoline MPG</th> <th style="text-align: left;">Dyno Settings</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Phase 1</td> <td style="text-align: center;">39.01</td> <td style="text-align: left;"> Dyno #: D002 Inertia: 3625 EPA Set Co A: 11.3 EPA Set Co B: 0.1401 EPA Set Co C: 0.017899999 Emiss-Bench: D002 </td> </tr> </tbody> </table>							Fuel Economy	Gasoline MPG	Dyno Settings	Phase 1	39.01	Dyno #: D002 Inertia: 3625 EPA Set Co A: 11.3 EPA Set Co B: 0.1401 EPA Set Co C: 0.017899999 Emiss-Bench: D002																													
Fuel Economy	Gasoline MPG	Dyno Settings																																							
Phase 1	39.01	Dyno #: D002 Inertia: 3625 EPA Set Co A: 11.3 EPA Set Co B: 0.1401 EPA Set Co C: 0.017899999 Emiss-Bench: D002																																							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0259-003

Vehicle ID: P156RXX-0091

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.050	1.400	0.086	2336.7	0.028	0.024	1.098

Test Conditions


	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.91			
Avg Cell Temp (degF)	73.76			
Dew Point (degF)	48.70			
Specific Humidity (grains/lbm)	52.78			
NOx Corr Factor	0.9055			
CO2 Dilution Factor	8.828			
CFV Vmix (scf @68F)	3049.76			

CVS Flow Rate Avg (scfm) 239.20

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.00
Distance (miles)	10.247
Bag Analysis Time (secs)	77.0

0.150

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0259-002		Vehicle ID: P156RXX-0091					
 Test Information	Test Date: 7/26/2011	MFR Name: VOLKSWAGEN					
	Key Start / Hot Soak: 11:39:31 / 10:00	MFR Codes: 590 VWX					
	Fuel Container ID: F00023	Config #: 00					
	Fuel Type: 61 Tier 2 Cert Test Fuel	Transmission: AUTO					
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp	Shift Schedule: A09980005					
	Calculation Method: Gasoline	Beginning Odometer: 025528.0 MI					
	Pretest Remarks:	Drive Schedule: ftp3bag Soak Period: 23.3 hours					
Bag Data							
Phase 1	<u>HC-FID</u> (ppmC)	<u>CO</u> (ppm)	<u>NOx</u> (ppm)	<u>CO2</u> (%)	<u>CH4</u> (ppm)	<u>NonMeth HC</u> (ppmC)	
Sample	7.033	46.671	0.713	0.852	2.380		
Ambient	2.552	0.437	0.011	0.042	1.945		
Net Concentration	4.644	46.262	0.703	0.812	0.560	4.030	
Remarks:							
Phase 2							
Sample	2.467	6.289	0.048	0.539	1.903		
Ambient	2.458	0.339	0.017	0.042	1.934		
Net Concentration	0.108	5.963	0.032	0.499	0.047	0.057	
Remarks:							
Phase 3							
Sample	2.762	10.785	1.538	0.724	1.992		
Ambient	2.519	1.301	0.030	0.043	1.935		
Net Concentration	0.380	9.554	1.509	0.684	0.161	0.203	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results	<u>HC-FID</u> (gpm)	<u>CO</u> (gpm)	<u>NOx</u> (gpm)	<u>CO2</u> (gpm)	<u>CH4</u> (gpm)	<u>NMHC</u> (gpm)	<u>Vol MPG</u> (mpg)
Phase 1	0.068	1.369	0.031	377.8	0.009	0.059	23.475
Phase 2	0.003	0.282	0.002	370.7	0.001	0.001	24.048
Phase 3	0.006	0.282	0.066	317.2	0.003	0.003	28.098
Weighted	0.01695	0.50724	0.02585	357.472	0.00337	0.01375	
Fuel Economy	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					<u>Dyno #:</u> D002
Phase 1	23.42						Inertia: 3625
Phase 2	23.99						EPA Set Co A: 11.3
Phase 3	28.03						EPA Set Co B: 0.1401
							EPA Set Co C: 0.017899999
Weighted	24.88						Emiss-Bench: D002

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NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0259-002

Vehicle ID: P156RXX-0091

Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.098
Phase 1	0.245	4.931	0.112	1360.5	0.034	0.213	
Phase 2	0.010	1.090	0.009	1434.3	0.005	0.005	
Phase 3	0.020	1.016	0.239	1142.7	0.010	0.011	



Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.90	28.90	28.88	
Avg Cell Temp (degF)	73.19	73.08	73.53	
Dew Point (degF)	48.94	49.00	48.58	
Specific Humidity (grains/lbm)	53.27	53.40	52.60	
NOx Corr Factor	0.9074	0.9079	0.9047	
CO2 Dilution Factor	15.632	24.812	18.465	
CFV Vmix (scf @68F)	3232.76	5544.02	3225.27	
CVS Flow Rate Avg (scfm)	382.95	382.21	382.14	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.51	870.30	506.40	
Distance (miles)	3.601	3.869	3.603	
Bag Analysis Time (secs)	79.0	74.1	74.0	

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/16/2011 6:39:26 PM
Subject: Test data for in-use vehicle P21-0020
[P121RXX-0020.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C150

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2011-0271-004		Vehicle ID: P121RXX-0020					
Test Date: 8/10/2011		MFR Name: VOLKSWAGEN					
Key Start: 14:55:00		MFR Codes: 590 VWX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 90 US06 (us06warmup_us06)		Shift Schedule: A09980041					
Calculation Method: Gasoline		Beginning Odometer: 065650.0 MI					
Pretest Remarks:		Drive Schedule: us06_us06					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	9.487	458.036	1.896	1.536	3.583		
Ambient	2.565	0.000	0.002	0.041	1.884		
Net Concentration	7.225	458.036	1.894	1.500	1.922	4.947	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.079	10.168	0.063	523.3	0.024	0.054	16.543
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	16.50	Dyno #: D329 - AWD					
		Inertia: 5500					
		EPA Set Co A: 5.01					
		EPA Set Co B: -0.237					
		EPA Set Co C: 0.03181					
		Emiss-Bench: Mexa 7200sle					
<div style="display: flex; justify-content: space-between;"> v101208 - d329 EPAVDAEm110810142931 Page 1 of 2 Print Time 10-Aug-2011 15:44 </div>							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0271-004

Vehicle ID: P121RXX-0020

Results





	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.636	81.461	0.503	4192.5	0.196	0.436	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.83			
Avg Cell Temp (degF)	74.86			
Dew Point (degF)	49.08			
Specific Humidity (grains/lbm)	53.69			
NOx Corr Factor	0.9090			
CO2 Dilution Factor	8.466			
CFV Vmix (scf @68F)	5394.28			
CVS Flow Rate Avg (scfm)	537.81			
Fan Placement: USO6 Only - One Large Fan - Up - Front				
Phase Time (secs)	601.80			
Distance (miles)	8.012			
Bag Analysis Time (secs)	155.2			


CISD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
		Test Number: 2011-0271-003 Test Date: 8/10/2011 Key Start: 13:49:39 Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfelprep_hwfet) Calculation Method: Gasoline Pretest Remarks:			Vehicle ID: P121RXX-0020 MFR Name: VOLKSWAGEN MFR Codes: 590 VWX Config #: 00 Transmission: AUTO Shift Schedule: A09980011 Beginning Odometer: 065629.0 MI Drive Schedule: hwfet_hwfet		
Test Information							
Bag Data							
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Phase 1							
	Sample	4.714	93.729	1.775	1.682	2.338	
	Ambient	2.633	0.000	0.001	0.042	1.899	
	Net Concentration	2.413	93.729	1.775	1.646	0.678	1.609
		Remarks:					
Phase 2							
	Sample						
	Ambient						
	Net Concentration						
		Remarks:					
Phase 3							
	Sample						
	Ambient						
	Net Concentration						
		Remarks:					
Phase 4							
	Sample						
	Ambient						
	Net Concentration						
		Remarks:					
Results							
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
	Phase 1	0.016	1.230	0.035	339.3	0.005	0.010
							Vol MPG
							(mpg)
							26.154
Fuel Economy							
		<u>Gasoline MPG</u>	<u>Dyno Settings</u>				<u>Dyno #:</u> D329 - AWD
	Phase 1	26.09					Inertia: 5500
							EPA Set Co A: 5.01
							EPA Set Co B: -0.237
							EPA Set Co C: 0.03181
							Emiss-Bench: Mexa 7200sie
v101208 - d329 EPAVDAEm110810131803							Page 1 of 2
							Print Time 10-Aug-2011 14:24

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0271-003			Vehicle ID: P121RXX-0020				
	Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>
		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)
	Phase 1	0.160	12.584	0.356	3472.2	0.052	0.107
							Meth Response 1.185
Test Conditions		<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>		
Barometer (inHg)		28.83					
Avg Cell Temp (degF)		75.12					
Dew Point (degF)		49.13					
Specific Humidity (grains/lbm)		53.80					
NOx Corr Factor		0.9094					
CO2 Dilution Factor		7.920					
CFV Vmix (scf @68F)		4072.11					
CVS Flow Rate Avg (scfm)		319.34					
Fan Placement: One Fan - Up - Front							
Phase Time (secs)		765.10					
Distance (miles)		10.234					
Bag Analysis Time (secs)		183.7					

CISD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0271-002		Vehicle ID: P121RXX-0020					
Test Date: 8/10/2011		MFR Name: VOLKSWAGEN					
Key Start / Hot Soak: 12:27:39 / 09:37		MFR Codes: 590 VWX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 065618.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 21.1 hours					
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	19.887	201.886	2.742	1.512	3.638		
Ambient	2.911	0.000	0.000	0.040	1.925		
Net Concentration	17.309	201.886	2.742	1.476	1.933	15.018	
Remarks:							
Phase 2							
Sample	3.055	6.890	0.042	0.919	1.882		
Ambient	3.054	0.000	0.000	0.040	1.919		
Net Concentration	0.210	6.890	0.042	0.882	0.095	0.097	
Remarks:							
Phase 3							
Sample	4.482	24.068	0.260	1.257	2.417		
Ambient	2.826	0.000	0.000	0.041	1.916		
Net Concentration	1.922	24.068	0.260	1.220	0.681	1.114	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.216	5.078	0.103	583.6	0.028	0.187	15.071
Phase 2	0.004	0.275	0.003	553.7	0.002	0.002	16.107
Phase 3	0.024	0.605	0.010	482.2	0.010	0.014	18.470
Weighted	0.05344	1.36165	0.02541	540.211	0.00960	0.04360	
Fuel Economy							
	Gasoline MPG	Dyno Settings					
Phase 1	15.04	Dyno #: D329 - AWD					
Phase 2	16.07	Inertia: 5500					
Phase 3	18.43	EPA Set Co A: 5.01					
		EPA Set Co B: -0.237					
		EPA Set Co C: 0.03181					
Weighted	16.42	Emiss-Bench: Mexa 7200ste					

NVFEL Laboratory Test Data							CVS	
Final Laboratory Test Results								
Test Number: 2011-0271-002				Vehicle ID: P121RXX-0020				
	Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
	Phase 1	0.771	18.165	0.370	2087.4	0.100	0.669	1.185
	Phase 2	0.016	1.058	0.010	2127.7	0.008	0.007	
	Phase 3	0.086	2.169	0.035	1728.5	0.035	0.050	
Test Conditions								
		<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>			
	Barometer (inHg)	28.82	28.82	28.82				
	Avg Cell Temp (degF)	75.50	75.23	74.97				
	Dew Point (degF)	49.61	49.42	49.30				
	Specific Humidity (grains/lbm)	54.81	54.40	54.16				
	NOx Corr Factor	0.9133	0.9117	0.9108				
	CO2 Dilution Factor	8.734	14.561	10.634				
	CFV Vmix (scf @68F)	2729.07	4656.56	2733.76				
	CVS Flow Rate Avg (scfm)	322.84	321.40	323.52				
	Fan Placement: One Fan - Up - Front							
	Phase Time (secs)	507.20	869.30	507.00				
	Distance (miles)	3.577	3.843	3.585				
	Bag Analysis Time (secs)	878.8	1100.0	161.0				

vf01208 - d329

EPAVDAEm110810121426

Page 2 of 2

Print Time 10-Aug-2011 13:30

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 8/18/2011 7:04:11 PM
Subject: Test data for in-use vehicle P121-0016
[P121RXX-0016.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

CISP

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0280-002		Vehicle ID: P121RXX-0016					
Test Date: 8/16/2011		MFR Name VOLKSWAGEN					
Key Start / Hot Soak: 09:23:55 / 09:36		MFR Codes: 590 VWX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 058202.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 18.1 hours					
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	26.494	212.342	3.533	1.467	4.522		
Ambient	6.279	0.000	0.022	0.046	2.097		
Net Concentration	20.913	212.342	3.513	1.426	2.658	17.764	
Remarks:							
Phase 2							
Sample	12.667	3.563	0.094	0.889	2.021		
Ambient	13.092	0.000	0.018	0.046	2.087		
Net Concentration	0.446	3.563	0.078	0.847	0.073	0.359	
Remarks:							
Phase 3							
Sample	7.609	10.589	0.461	1.217	2.510		
Ambient	6.763	0.000	0.011	0.046	2.068		
Net Concentration	1.461	10.589	0.451	1.175	0.630	0.714	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.263	5.383	0.135	568.0	0.039	0.223	15.462
Phase 2	0.009	0.144	0.005	537.0	0.002	0.007	16.613
Phase 3	0.018	0.269	0.017	469.0	0.009	0.009	19.011
Weighted	0.06411	1.26459	0.03515	524.704	0.01140	0.05244	
Fuel Economy							
	Gasoline MPG	Dyno Settings					
Phase 1	15.43	Dyno #: D329 - AWD					
Phase 2	16.57	Inertia: 5500					
Phase 3	18.97	EPA Set Co A: -15.46					
		EPA Set Co B: 0.0425					
		EPA Set Co C: 0.02793					
Weighted	16.89	Emiss-Bench: Mexa 7200sle					


NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0280-002

Vehicle ID: P121RXX-0016

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
 Phase 1	0.941	19.289	0.483	2035.2	0.138	0.799	1.185
Phase 2	0.034	0.553	0.018	2066.1	0.006	0.028	
Phase 3	0.066	0.965	0.062	1683.8	0.033	0.032	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.11	29.11	29.12	
Avg Cell Temp (degF)	73.82	73.58	73.37	
Dew Point (degF)	51.39	51.51	48.90	
Specific Humidity (grains/lbm)	58.00	58.27	52.79	
NOx Corr Factor	0.9260	0.9271	0.9055	
CO2 Dilution Factor	8.990	15.040	10.996	
CFV Vmix (scf @68F)	2755.23	4709.54	2765.33	
CVS Flow Rate Avg (scfm)	326.06	324.94	327.39	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.00	869.60	506.80	
Distance (miles)	3.583	3.847	3.590	
Bag Analysis Time (secs)	879.1	1099.0	161.0	

0150

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0280-003

Vehicle ID: P121RXX-0016

Test Information

Test Date: 8/16/2011

MFR Name VOLKSWAGEN

Key Start: 10:42:05

MFR Codes: 590 VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 058213.0 MI

Pretest Remarks:

Drive Schedule: hwfet_hwfet



Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	5.578	79.687	0.787	1.672	2.525	
Ambient	3.073	0.000	0.009	0.044	1.974	
Net Concentration	2.890	79.687	0.779	1.633	0.799	1.943

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.019	1.057	0.015	340.5	0.006	0.013	26.083

Fuel Economy

Gasoline MPG

Phase 1 26.02

Dyno Settings

Dyno #: D329 - AWD

Inertia: 5500

EPA Set Co A: -15.46

EPA Set Co B: 0.0425

EPA Set Co C: 0.02793

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0280-003

Vehicle ID: P121RXX-0016

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.194	10.824	0.158	3486.4	0.062	0.131	1.185

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.11			
Avg Cell Temp (degF)	74.69			
Dew Point (degF)	49.61			
Specific Humidity (grains/lbm)	54.24			
NOx Corr Factor	0.9111			
CO2 Dilution Factor	7.976			
CFV Vmix (scf @68F)	4119.78			
CVS Flow Rate Avg (scfm)	323.08			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.10			
Distance (miles)	10.240			
Bag Analysis Time (secs)	145.2			

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 9/1/2011 8:58:18 PM
Subject: Notification of a new in-use surveillance test class P-184
[NOTIF-P-184-Audi.doc](#)

Dear Sebasitan,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

September 1, 2011

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Mr. Reineke,

The Environmental Protection Agency will test a 2009 model-year Audi test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of two or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

One vehicle may be subjected to evaporative testing and a US06 is usually run per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	9ADXV03.23LC
<u>Estimated Start Date</u>	Week-ending October 7, 2011
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214-4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	P184/P185 (low-mileage / high-mileage)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/28/2011 6:45:04 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN# Ex. 6 Incoming on 10/5/11 (Wednesday)
@ 0830

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 10/4/2011 5:40:32 PM
Subject: RE: In-use vehicles scheduled for next week
sebastian.berenz@vw.com

Hello, Sebastian.

I apologize for the mix-up. We sent out invitations to owners of the 3.2l test group and no owners of that vehicle responded. However, we did get responses from owners of vehicles in test group 9AD XV02.034B so we decided to test those instead. Unfortunately, I forgot to make a note to myself and I neglected to notify you. I'm sorry about that. The VIN is correct and your dealer network is correct, it is a 2.0l vehicles.

Again, I apologize for the error.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/04/2011 10:45 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

I reviewed the data for the car you want to bring in tomorrow.

As far as you informed us, you wanted to test cars of the test group 9AD XV03.23LC with a 3.2l engine MY2009.

The vehicle with VIN: Ex. 6 is a 2.0l Audi A4 MY2009 and wouldn't match into this test group. That is what our dealer network tells me.

Please verify the VIN and let me know if I have wrong data. Let me know if you need anything from our side.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, September 28, 2011 2:45 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN# Ex. 6 Incoming on 10/5/11 (Wednesday) @ 0830

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 10/5/2011 7:28:08 PM
Subject: Next P184 vehicle.

Hi, Sebastian.

We did get another positive response to this class and we are working getting the questionnaire done with the participant and if all goes well, we will be planning on bringing this vehicle in W.E. 10/28/11.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 10/19/2011 7:02:15 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P185RXX-0003 (2009 Audi/A4 Quattro) - VIN# Ex. 6 10/26/11 (Wednesday) 0900 Veh.
pick up

Please use the new attached form to send testing information to me for these vehicles before pick-up.
Return the attached form in excel format so that the values may be automatically transferred to our
testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary,
pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent
directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 10/21/2011 3:03:32 PM
Subject: Test data for in-use vehicle P184-0012
[P184RXX-0012.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

CISD

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0352-004

Vehicle ID: P184RXX-0012

Test Information



Test Date: 10/20/2011

Key Start: 10:59:48

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 90 US06 (us06warmup_us06)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980041

Beginning Odometer: 043557.0 MI

Drive Schedule: us06_us06

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	5.084	176.511	1.121	1.104	2.504	
Ambient	2.778	0.000	0.006	0.043	1.935	
Net Concentration	2.539	176.511	1.116	1.065	0.731	1.673

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.028	3.880	0.037	367.7	0.009	0.018	23.869

Fuel Economy

Gasoline MPG

Phase 1 23.81

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4000

EPA Set Co A: -0.6

EPA Set Co B: 0.2703

EPA Set Co C: 0.01721

Emiss-Bench: Mexa 7200sle

**NVFEL Laboratory Test Data
Final Laboratory Test Results**

CVS

Test Number: 2011-0352-004

Vehicle ID: P184RXX-0012

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.221	31.018	0.295	2939.6	0.074	0.146	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.26			
Avg Cell Temp (degF)	75.40			
Dew Point (degF)	49.36			
Specific Humidity (grains/lbm)	55.39			
NOx Corr Factor	0.9156			
CO2 Dilution Factor	11.943			
CFV Vmix (scf @68F)	5330.01			

CVS Flow Rate Avg (scfm) 531.94

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	601.19
Distance (miles)	7.994
Bag Analysis Time (secs)	154.9

C1SD
CVS

NVFEL Laboratory Test Data
Final Laboratory Test Results

Test Number: 2011-0352-003

Vehicle ID: P184RXX-0012

Test Information



Test Date: 10/20/2011
Key Start: 10:15:59
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 03 HWFET (hwfetest_prep_hwfet)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980011
Beginning Odometer: 043536.0 MI
Drive Schedule: hwfetest_prep_hwfet

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.451	19.368	0.309	1.305	2.178	
Ambient	2.548	0.000	0.009	0.044	1.977	
Net Concentration	1.151	19.368	0.301	1.266	0.394	0.684

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.007	0.249	0.006	256.0	0.003	0.004	34.811

Fuel Economy

Gasoline MPG
Phase 1 34.73

Dyno Settings

Dyno #: D329 - AWD
Inertia: 4000
EPA Set Co A: -0.6
EPA Set Co B: 0.2703
EPA Set Co C: 0.01721

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0352-003

Vehicle ID: P184RXX-0012

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.075	2.553	0.059	2620.9	0.030	0.045	1.185

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.24			
Avg Cell Temp (degF)	75.49			
Dew Point (degF)	48.96			
Specific Humidity (grains/lbm)	54.57			
NOx Corr Factor	0.9124			
CO2 Dilution Factor	10.252			
CFV Vmix (scf @68F)	3997.24			
CVS Flow Rate Avg (scfm)	313.51			
Fan Placement:	One Fan - Up - Front			
Phase Time (secs)	765.00			
Distance (miles)	10.239			
Bag Analysis Time (secs)	144.9			

CISO

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0352-002

Vehicle ID: P184RXX-0012

Test Information


 Test Date: 10/20/2011
 Key Start / Hot Soak: 09:01:54 / 09:44

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

 Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)
 Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980005

Beginning Odometer: 043525.0 MI

Drive Schedule: ftp3bag

Soak Period: 22.5 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	11.804	74.328	1.864	1.102	3.232	
Ambient	2.684	0.000	0.009	0.044	2.133	
Net Concentration	9.342	74.328	1.855	1.061	1.276	7.830

Remarks:

Phase 2

Sample	2.645	5.474	0.217	0.672	2.032	
Ambient	2.694	0.000	0.009	0.043	2.124	
Net Concentration	0.086	5.474	0.208	0.631	0.015	0.069

Remarks:

Phase 3

Sample	2.862	12.770	0.183	0.908	2.161	
Ambient	2.636	0.000	0.011	0.044	2.090	
Net Concentration	0.404	12.770	0.173	0.867	0.213	0.152

Remarks:

Phase 4

 Sample
 Ambient
 Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.114	1.824	0.068	409.4	0.018	0.095	21.631
Phase 2	0.002	0.214	0.012	387.5	0.000	0.001	23.011
Phase 3	0.005	0.315	0.006	335.9	0.003	0.002	26.530
Weighted	0.02580	0.57606	0.02226	377.881	0.00472	0.02096	

Fuel Economy

	Gasoline MPG
Phase 1	21.58
Phase 2	22.96
Phase 3	26.47

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4000

EPA Set Co A: -0.6

EPA Set Co B: 0.2703

EPA Set Co C: 0.01721

Weighted 23.50

Emiss-Bench: Mexa 7200sle

v101208 - d329 EPAVDAEm111020085111

Page 1 of 2

Print Time 20-Oct-2011 13:33

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0352-002

Vehicle ID: P184RXX-0012

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.185
Phase 1	0.407	6.544	0.245	1468.5	0.064	0.341	
Phase 2	0.006	0.823	0.047	1489.7	0.001	0.005	
Phase 3	0.018	1.128	0.023	1203.1	0.011	0.007	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.22	28.22	28.23	
Avg Cell Temp (degF)	75.67	75.58	75.51	
Dew Point (degF)	49.60	48.84	48.70	
Specific Humidity (grains/lbm)	55.96	54.37	54.06	
NOx Corr Factor	0.9179	0.9116	0.9104	
CO2 Dilution Factor	12.070	19.919	14.738	
CFV Vmix (scf @68F)	2670.55	4559.10	2679.13	
CVS Flow Rate Avg (scfm)	316.10	314.71	317.18	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.90	869.19	506.80	
Distance (miles)	3.587	3.844	3.581	
Bag Analysis Time (secs)	878.7	1105.8	161.0	

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 11/22/2011 8:59:21 PM
Subject: Notification of a new in-use surveillance test class
[NOTIF-R-104-Audi.pdf](#)

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF
AIR AND RADIATION

November 22, 2011

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Mr. Reineke,

The Environmental Protection Agency will test a 2009 model-year Audi test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of three or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

One vehicle may be subjected to evaporative testing and a US06 is usually run per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, reading "Lynn Sohacki".

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	9AD XV03.23LC
<u>Estimated Start Date</u>	Week-ending January 14, 2012
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214-4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	R104/R105 (low-mileage / high-mileage)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 11/23/2011 1:28:06 PM
Subject: RE: Notification of a new in-use surveillance test class

Hi, Sebastian.

This vehicle hasn't tested yet. I'll forward the test data once it's tested.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 11/22/2011 06:08 PM
Subject: RE: Notification of a new in-use surveillance test class

Hello Lynn,

Thank you very much for letting me know.
Please inform me when the first car comes in and I will check the car in.

I have another question concerning the 2.0l Audi test group you tested.
I still haven't heard anything about the last car that you tested:

Ex. 6	P185RXX-0003	My2009 Audi A4
Do you know if this one passed?		

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, November 22, 2011 3:59 PM
To: Berenz, Sebastian
Subject: Notification of a new in-use surveillance test class

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: NOTIF-R-104-Audi.pdf)


To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 11/29/2011 6:43:44 PM
Subject: Test data for in-use vehicle P185-0003
[P185RXX-0003.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

Cert

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0020-002			Vehicle ID: P185RXX-0003				
	Test Information		Test Date: 11/23/2011		MFR Name: AUDI		
	Key Start / Hot Soak: 06:58:24 / 09:38				MFR Codes: 640 ADX		
	Fuel Container ID: F00023				Config #: 00		
	Fuel Type: 61 Tier 2 Cert Test Fuel				Transmission: AUTO		
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)				Shift Schedule: A09980005		
	Calculation Method: Gasoline				Beginning Odometer: 056584.0 MI		
Pretest Remarks:			Drive Schedule: ftp3bag				
			Soak Period: 22.6 hours				
Bag Data							
Phase 1		HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample		12.064	60.048	3.546	1.055	3.008	
Ambient		2.282	0.000	0.002	0.042	1.903	
Net Concentration		9.962	60.048	3.545	1.016	1.256	8.474
Remarks:							
Phase 2		HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample		2.563	6.602	0.265	0.656	1.859	
Ambient		2.313	0.000	0.001	0.042	1.898	
Net Concentration		0.363	6.602	0.264	0.617	0.054	0.299
Remarks:							
Phase 3		HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample		3.400	25.622	1.051	0.852	2.305	
Ambient		2.350	0.000	0.002	0.042	1.896	
Net Concentration		1.200	25.622	1.049	0.812	0.530	0.572
Remarks:							
Phase 4		HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.125	1.527	0.134	406.0	0.018	0.107	21.831
Phase 2	0.007	0.267	0.016	391.5	0.001	0.006	22.772
Phase 3	0.015	0.652	0.040	324.6	0.008	0.007	27.409
Weighted	0.03394	0.63400	0.04681	376.101	0.00657	0.02721	
Fuel Economy							
	Gasoline MPG	Dyno Settings					
Phase 1	21.78	Dyno #: D329 - AWD					
Phase 2	22.72	Inertia: 4000					
Phase 3	27.35	EPA Set Co A: -4.13					
		EPA Set Co B: -0.1044					
		EPA Set Co C: 0.02198					
Weighted	23.61	Emiss-Bench: Mexa 7200sle					

v101208 - d329

EPAVDAEm111123064915

Page 1 of 2

Print Time 23-Nov-2011 13:28

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0020-002

Vehicle ID: P185RXX-0003

Results




	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.449	5.468	0.479	1453.8	0.066	0.382	1.185
Phase 2	0.028	1.025	0.061	1504.8	0.005	0.023	
Phase 3	0.054	2.337	0.142	1164.0	0.028	0.026	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.06	29.07	29.08	
Avg Cell Temp (degF)	75.29	75.29	75.30	
Dew Point (degF)	48.48	48.47	48.65	
Specific Humidity (grains/lbm)	52.07	52.03	52.37	
NOx Corr Factor	0.9027	0.9026	0.9039	
CO2 Dilution Factor	12.618	20.384	15.676	
CFV Vmix (scf @68F)	2761.73	4710.60	2766.18	
CVS Flow Rate Avg (scfm)	326.77	325.02	327.49	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.10	869.60	506.80	
Distance (miles)	3.581	3.844	3.586	
Bag Analysis Time (secs)	879.1	1101.6	160.6	

Cent

NVFEL Laboratory Test Data						CVS		
Final Laboratory Test Results								
Test Number: 2012-0020-003		Vehicle ID: P185RXX-0003						
	Test Date: 11/23/2011		MFR Name: AUDI					
	Key Start: 08:33:52		MFR Codes: 640 ADX					
	Fuel Container ID: F00023		Config #: 00					
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
	Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011					
	Calculation Method: Gasoline		Beginning Odometer: 056595.0 MI					
Pretest Remarks:		Drive Schedule: hwfet_hwfet						
Bag Data								
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1								
Sample		3.601	32.548	1.060	1.153	2.233		
Ambient		2.445	0.000	0.003	0.043	1.907		
Net Concentration		1.367	32.548	1.057	1.114	0.490	0.786	
Remarks:								
Phase 2								
Sample								
Ambient								
Net Concentration								
Remarks:								
Phase 3								
Sample								
Ambient								
Net Concentration								
Remarks:								
Phase 4								
Sample								
Ambient								
Net Concentration								
Remarks:								
Results								
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1		0.009	0.435	0.021	233.7	0.004	0.005	38.067
Fuel Economy		<u>Gasoline MPG</u>			<u>Dyno Settings</u>			
Phase 1		37.98			Dyno #: D329 - AWD			
					Inertia: 4000			
					EPA Set Co A: -4.13			
					EPA Set Co B: -0.1044			
					EPA Set Co C: 0.02198			
					Emiss-Bench: Mexa 7200sle			
<div style="display: flex; justify-content: space-between; font-size: small;"> v101208 - d329 EPAVDAEm111123074719 Page 1 of 2 Print Time 23-Nov-2011 13:29 </div>								

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0020-003

Vehicle ID: P185RXX-0003

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.092	4.443	0.213	2389.1	0.038	0.053	1.185

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.12			
Avg Cell Temp (degF)	75.11			
Dew Point (degF)	48.15			
Specific Humidity (grains/lbm)	51.32			
NOx Corr Factor	0.8999			
CO2 Dilution Factor	11.587			
CFV Vmix (scf @68F)	4140.62			

CVS Flow Rate Avg (scfm) 324.71

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.10
Distance (miles)	10.221
Bag Analysis Time (secs)	144.8

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 2/13/2012 9:17:38 PM
Subject: Test data for in-use vehicle R104-0049
[R104RXX-0049.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-002

Vehicle ID: R104RXX-0049

Test Information



Test Date: 2/9/2012
Key Start / Hot Soak: 08:41:13 / 09:50
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 029777.0 MI
Drive Schedule: ftp3bag
Soak Period: 19.5 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	18.414	48.352	2.684	1.061	3.465	
Ambient	2.438	0.000	0.010	0.044	1.993	
Net Concentration	16.169	48.352	2.675	1.020	1.631	14.237

Remarks:

Phase 2

Sample	2.394	1.528	0.043	0.678	1.898	
Ambient	2.456	0.000	0.008	0.044	1.984	
Net Concentration	0.062	1.528	0.035	0.637	0.014	0.045

Remarks:

Phase 3

Sample	4.213	17.524	0.179	0.912	2.247	
Ambient	2.446	0.000	0.008	0.044	1.973	
Net Concentration	1.933	17.524	0.172	0.871	0.408	1.450

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.209	1.261	0.103	418.2	0.024	0.184	21.210
Phase 2	0.001	0.064	0.002	416.6	0.000	0.001	21.420
Phase 3	0.025	0.457	0.007	357.2	0.006	0.019	24.932
Weighted	0.05089	0.42035	0.02443	400.589	0.00691	0.04381	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #:
Phase 1	21.16		D329 - AWD
Phase 2	21.37		Inertia: 4250
Phase 3	24.87		EPA Set Co A: -0.34
			EPA Set Co B: 0.1024
			EPA Set Co C: 0.02006
Weighted	22.16		Emiss-Bench: Mexa 7200sle

v101208 - d329

EPAVDAEm120209083322

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Print Time 13-Feb-2012 06:05

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-002

Vehicle ID: R104RXX-0049

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.751	4.532	0.372	1502.7	0.088	0.661	1.185
Phase 2	0.005	0.245	0.008	1604.0	0.001	0.004	
Phase 3	0.090	1.639	0.024	1279.7	0.022	0.067	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.26	29.26	29.25	
Avg Cell Temp (degF)	74.82	75.18	75.69	
Dew Point (degF)	48.64	48.69	48.66	
Specific Humidity (grains/lbm)	52.03	52.14	52.07	
NOx Corr Factor	0.9026	0.9030	0.9027	
CO2 Dilution Factor	12.554	19.743	14.664	
CFV Vmix (scf @68F)	2842.74	4862.09	2836.21	
CVS Flow Rate Avg (scfm)	336.35	335.47	335.51	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.10	869.60	507.20	
Distance (miles)	3.594	3.851	3.583	
Bag Analysis Time (secs)	879.1	1113.6	161.5	

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-003

Vehicle ID: R104RXX-0049

Test Information



Test Date: 2/9/2012
Key Start: 09:52:17
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 03 HWFET (hwfetprep_hwfet)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980011
Beginning Odometer: 029788.0 MI
Drive Schedule: hwfet_hwfet

Bag Data

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Phase 1						
Sample	3.533	15.407	0.262	1.158	2.059	
Ambient	2.442	0.000	0.010	0.044	1.960	
Net Concentration	1.303	15.407	0.254	1.117	0.269	0.984

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.009	0.210	0.005	239.7	0.002	0.007	37.176

Fuel Economy

Gasoline MPG
Phase 1 37.09

Dyno Settings

Dyno #: D329 - AWD
Inertia: 4250
EPA Set Co A: -0.34
EPA Set Co B: 0.1024
EPA Set Co C: 0.02006

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-003

Vehicle ID: R104RXX-0049

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.090	2.151	0.053	2451.6	0.022	0.068	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.25			
Avg Cell Temp (degF)	75.76			
Dew Point (degF)	48.73			
Specific Humidity (grains/lbm)	52.23			
NOx Corr Factor	0.9033			
CO2 Dilution Factor	11.554			
CFV Vmix (scf @68F)	4234.56			
CVS Flow Rate Avg (scfm)	332.12			
Fan Placement:	One Fan - Up - Front			
Phase Time (secs)	765.00			
Distance (miles)	10.227			
Bag Analysis Time (secs)	145.9			

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-004

Vehicle ID: R104RXX-0049

Test Information



Test Date: 2/9/2012
Key Start: 10:32:39
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 90 US06 (us06warmup_us06)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980041
Beginning Odometer: 029809.0 MI
Drive Schedule: us06_us06

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.803	41.038	0.965	1.137	2.041	
Ambient	2.424	0.000	0.016	0.045	1.946	
Net Concentration	1.585	41.038	0.950	1.095	0.261	1.276

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.018	0.955	0.033	400.5	0.003	0.015	22.199

Fuel Economy

Gasoline MPG
Phase 1 22.15

Dyno Settings

Dyno #: D329 - AWD
Inertia: 4250
EPA Set Co A: -0.34
EPA Set Co B: 0.1024
EPA Set Co C: 0.02006

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-004

Vehicle ID: R104RXX-0049

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.146	7.635	0.262	3202.4	0.028	0.118	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.24			
Avg Cell Temp (degF)	75.11			
Dew Point (degF)	48.48			
Specific Humidity (grains/lbm)	51.74			
NOx Corr Factor	0.9015			
CO2 Dilution Factor	11.742			
CFV Vmix (scf @68F)	5643.25			

CVS Flow Rate Avg (scfm) 563.10

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	601.29
Distance (miles)	7.996
Bag Analysis Time (secs)	156.0

To: "Giles, Michael" [michael.giles@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 2/17/2012 7:35:23 PM
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hi, Michael.

I apologize that I haven't gotten back to you. I was out most of last week. I will review your submission by the end of next week.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/17/2012 09:01 AM
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hi Lynn,

Just a quick follow up to check status of this and make sure you have what you need. If you have further questions please let me know.

Thanks,
Mike

-----Original Message-----

From: Giles, Michael
Sent: Wednesday, February 01, 2012 4:35 PM
To: 'Lynn Sohacki'
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

As we discussed, please find attached a revised submission for our Non-Integrated ORVR for the MY 2013 Jetta Hybrid. I hope this revision answers your questions.

This revised document was submitted to VERIFY today.

Please contact me if you have further questions.

Regards,
Mike

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 13, 2012 3:55 PM
To: Giles, Michael
Subject: Re: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Dear Mr. Giles,

Thank you for the ORVR application below. I have a few questions before I forward the application to my team members: there are several references to Bugatti in the application. Is this family identical to a Bugatti family? Items 3 and 4 specifically mention Bugatti. What is the connection with Bugatti and this VW evap family?

Thanks for your answers.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/09/2012 08:13 AM
Subject: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

I was asked by my colleague (Bob Hart) to send you copies of our ORVR submissions. The attachment was recently submitted to Jim Snyder through Verify.

Please call me if you have any questions about this.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone +1-248-754-4229
FAX +1-248-754-4207

[attachment "CBI_DVWXR0110PHE_RFA_ORV_R00.PDF" deleted by Lynn Sohacki/AA/USEPA/US]

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 2/24/2012 7:57:43 PM
Subject: Test data for in-use vehicle R104-0061 and R104-0077
[R104RXX-0061.pdf](#)
[R104RXX-0049.pdf](#)

Hi, Sebastian.


The data for the above vehicles is attached. Also, I got approval from the privacy office to contact the owners of the vehicle and ask if I can give you their contact information. I will be calling them Monday.

Please give me a call if you have any questions.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C150

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0105-002			Vehicle ID: R104RXX-0061				
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">  </div> <div style="width: 65%;"> <p>Test Information</p> <p>Test Date: 2/22/2012</p> <p>Key Start / Hot Soak: 14:07:03 / 09:39</p> <p>Fuel Container ID: F00023</p> <p>Fuel Type: 61 Tier 2 Cert Test Fuel</p> <p>Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)</p> <p>Calculation Method: Gasoline</p> <p>Pretest Remarks:</p> </div> <div style="width: 20%;"> <p>MFR Name: AUDI</p> <p>MFR Codes: 640 ADX</p> <p>Config #: 00</p> <p>Transmission: MANUAL</p> <p>Shift Schedule: A09980004</p> <p>Beginning Odometer: 019364.0 MI</p> <p>Drive Schedule: ftp3bag</p> <p>Soak Period: 23.5 hours</p> </div> </div>							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	47.882	41.863	1.426	1.126	3.078		
Ambient	2.236	0.000	0.005	0.043	1.907		
Net Concentration	45.835	41.863	1.421	1.087	1.332	44.256	
Remarks:							
Phase 2							
Sample	2.395	0.124	0.393	0.768	1.808		
Ambient	2.252	0.000	0.004	0.043	1.902		
Net Concentration	0.272	0.124	0.389	0.728	0.015	0.255	
Remarks:							
Phase 3							
Sample	3.691	9.269	0.654	0.966	1.961		
Ambient	2.242	0.000	0.005	0.043	1.898		
Net Concentration	1.611	9.269	0.650	0.926	0.200	1.375	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.580	1.069	0.054	436.1	0.019	0.560	20.304
Phase 2	0.005	0.005	0.024	464.5	0.000	0.005	19.213
Phase 3	0.020	0.235	0.025	368.8	0.003	0.017	24.173
Weighted	0.12855	0.28883	0.03025	432.253	0.00502	0.12340	
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	20.26	Dyno #: D329 - AWD					
Phase 2	19.17	Inertia: 3875					
Phase 3	24.12	EPA Set Co A: -1.94					
		EPA Set Co B: -0.0912					
		EPA Set Co C: 0.01842					
Weighted	20.57	Emiss-Bench: Mexa 7200sle					

0.128

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0105-002

Vehicle ID: R104RXX-0061

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	2.067	3.811	0.193	1555.1	0.069	1.996	1.185
Phase 2	0.021	0.019	0.091	1779.8	0.001	0.020	
Phase 3	0.072	0.841	0.088	1321.0	0.010	0.062	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.54	28.53	28.53	
Avg Cell Temp (degF)	73.88	74.27	74.62	
Dew Point (degF)	48.88	48.67	49.13	
Specific Humidity (grains/lbm)	53.85	53.42	54.37	
NOx Corr Factor	0.9096	0.9079	0.9116	
CO2 Dilution Factor	11.804	17.438	13.857	
CFV Vmix (scf @68F)	2761.45	4720.13	2753.54	
CVS Flow Rate Avg (scfm)	326.80	325.68	325.93	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.00	869.60	506.90	
Distance (miles)	3.566	3.832	3.582	
Bag Analysis Time (secs)	879.1	1102.4	161.6	

0150

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0105-003

Vehicle ID: R104RXX-0061

Test Information



Test Date: 2/22/2012

Key Start: 15:18:03

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: MANUAL

Shift Schedule: A09980010

Beginning Odometer: 019375.0 MI

Drive Schedule: hwfet_hwfet

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.920	12.683	0.288	0.821	2.094	
Ambient	2.463	0.000	0.082	0.044	1.916	
Net Concentration	1.608	12.683	0.211	0.780	0.295	1.258

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.015	0.246	0.006	237.3	0.003	0.012	37.538

Fuel Economy

Gasoline MPG

Phase 1 37.45

Dyno Settings

Dyno #: D329 - AWD

Inertia: 3875

EPA Set Co A: -1.94

EPA Set Co B: -0.0912

EPA Set Co C: 0.01842

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0105-003

Vehicle ID: R104RXX-0061

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.158	2.514	0.062	2427.8	0.034	0.124	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.52			
Avg Cell Temp (degF)	75.79			
Dew Point (degF)	46.82			
Specific Humidity (grains/lbm)	49.82			
NOx Corr Factor	0.8942			
CO2 Dilution Factor	16.287			
CFV Vmix (scf @68F)	6011.23			
CVS Flow Rate Avg (scfm)	471.41			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.09			
Distance (miles)	10.230			
Bag Analysis Time (secs)	146.0			

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-002

Vehicle ID: R104RXX-0049

Test Information



Test Date: 2/9/2012
Key Start / Hot Soak: 08:41:13 / 09:50
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 029777.0 MI
Drive Schedule: ftp3bag
Soak Period: 19.5 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	18.414	48.352	2.684	1.061	3.465	
Ambient	2.438	0.000	0.010	0.044	1.993	
Net Concentration	16.169	48.352	2.675	1.020	1.631	14.237

Remarks:

Phase 2

Sample	2.394	1.528	0.043	0.678	1.898	
Ambient	2.456	0.000	0.008	0.044	1.984	
Net Concentration	0.062	1.528	0.035	0.637	0.014	0.045

Remarks:

Phase 3

Sample	4.213	17.524	0.179	0.912	2.247	
Ambient	2.446	0.000	0.008	0.044	1.973	
Net Concentration	1.933	17.524	0.172	0.871	0.408	1.450

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.209	1.261	0.103	418.2	0.024	0.184	21.210
Phase 2	0.001	0.064	0.002	416.6	0.000	0.001	21.420
Phase 3	0.025	0.457	0.007	357.2	0.006	0.019	24.932
Weighted	0.05089	0.42035	0.02443	400.589	0.00691	0.04381	

Fuel Economy

	Gasoline MPG	Dyno Settings
Phase 1	21.16	Dyno #: D329 - AWD
Phase 2	21.37	Inertia: 4250
Phase 3	24.87	EPA Set Co A: -0.34
		EPA Set Co B: 0.1024
		EPA Set Co C: 0.02006
Weighted	22.16	Emiss-Bench: Mexa 7200sle

v101208 - d329

EPAVDAEm120209083322

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Print Time 13-Feb-2012 06:05

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-002

Vehicle ID: R104RXX-0049

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.751	4.532	0.372	1502.7	0.088	0.661	1.185
Phase 2	0.005	0.245	0.008	1604.0	0.001	0.004	
Phase 3	0.090	1.639	0.024	1279.7	0.022	0.067	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.26	29.26	29.25	
Avg Cell Temp (degF)	74.82	75.18	75.69	
Dew Point (degF)	48.64	48.69	48.66	
Specific Humidity (grains/lbm)	52.03	52.14	52.07	
NOx Corr Factor	0.9026	0.9030	0.9027	
CO2 Dilution Factor	12.554	19.743	14.664	
CFV Vmix (scf @68F)	2842.74	4862.09	2836.21	
CVS Flow Rate Avg (scfm)	336.35	335.47	335.51	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.10	869.60	507.20	
Distance (miles)	3.594	3.851	3.583	
Bag Analysis Time (secs)	879.1	1113.6	161.5	

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-003

Vehicle ID: R104RXX-0049

Test Information



Test Date: 2/9/2012
Key Start: 09:52:17
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 03 HWFET (hwfetprep_hwfet)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980011
Beginning Odometer: 029788.0 MI
Drive Schedule: hwfet_hwfet

Bag Data

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Phase 1						
Sample	3.533	15.407	0.262	1.158	2.059	
Ambient	2.442	0.000	0.010	0.044	1.960	
Net Concentration	1.303	15.407	0.254	1.117	0.269	0.984

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.009	0.210	0.005	239.7	0.002	0.007	37.176

Fuel Economy

Gasoline MPG
Phase 1 37.09

Dyno Settings

Dyno #: D329 - AWD
Inertia: 4250
EPA Set Co A: -0.34
EPA Set Co B: 0.1024
EPA Set Co C: 0.02006

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-003

Vehicle ID: R104RXX-0049

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.090	2.151	0.053	2451.6	0.022	0.068	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.25			
Avg Cell Temp (degF)	75.76			
Dew Point (degF)	48.73			
Specific Humidity (grains/lbm)	52.23			
NOx Corr Factor	0.9033			
CO2 Dilution Factor	11.554			
CFV Vmix (scf @68F)	4234.56			
CVS Flow Rate Avg (scfm)	332.12			
Fan Placement:	One Fan - Up - Front			
Phase Time (secs)	765.00			
Distance (miles)	10.227			
Bag Analysis Time (secs)	145.9			

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-004

Vehicle ID: R104RXX-0049

Test Information



Test Date: 2/9/2012
Key Start: 10:32:39
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 90 US06 (us06warmup_us06)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980041
Beginning Odometer: 029809.0 MI
Drive Schedule: us06_us06

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.803	41.038	0.965	1.137	2.041	
Ambient	2.424	0.000	0.016	0.045	1.946	
Net Concentration	1.585	41.038	0.950	1.095	0.261	1.276

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.018	0.955	0.033	400.5	0.003	0.015	22.199

Fuel Economy

Gasoline MPG

Phase 1 22.15

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4250

EPA Set Co A: -0.34

EPA Set Co B: 0.1024

EPA Set Co C: 0.02006

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0103-004

Vehicle ID: R104RXX-0049

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.146	7.635	0.262	3202.4	0.028	0.118	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.24			
Avg Cell Temp (degF)	75.11			
Dew Point (degF)	48.48			
Specific Humidity (grains/lbm)	51.74			
NOx Corr Factor	0.9015			
CO2 Dilution Factor	11.742			
CFV Vmix (scf @68F)	5643.25			

CVS Flow Rate Avg (scfm) 563.10

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	601.29
Distance (miles)	7.996
Bag Analysis Time (secs)	156.0

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 2/27/2012 3:42:21 PM
Subject: Recruiting 2 additional vehicles for class R104

Hi, Sebastian.

We will recruit two additional vehicles for this class. One respondent had the hood replaced so the under hood label is gone. Can you please let me know the test group of this VIN: **Ex. 6**

Thanks,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 2/28/2012 7:46:11 PM
Subject: Owner contact information

Hi, Sebastian.

I got permission to contact the vehicle owner to ask him/her if I can give their phone number to Audi to follow up on their vehicle. I haven't called the owner yet because I wasn't sure if you were going to wait until you got back from Germany. Would you prefer to get their info soon or would you like to wait until you return?

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 2/28/2012 9:25:55 PM
Subject: Fw: R104RXX-0061 (2009 Audi/A5)

Hi, Sebastian.

This owner has also given permission for me to give you their contact information. The owner's name is

Ex. 6 His home phone number is Ex. 6

For your information, this vehicle has not been released back to the owners yet but it will be going back to them in the next few days.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 02/28/2012 04:23 PM -----

From: Ex. 6
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/28/2012 04:20 PM
Subject: Re: R104RXX-0061 (2009 Audi/A5)

Hi Lynn,

The participant's name is Ex. 6 Home phone number is Ex. 6

Ex. 6
URS
Quality Control Auditor
Ex. 6

From: Lynn Sohacki/AA/USEPA/US
To: Ex. 6
Date: 02/28/2012 04:13 PM
Subject: Re: R104RXX-0061 (2009 Audi/A5)

Hi, Ex. 6

Can I please have the owners contact information on this vehicle?

Thanks

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: Ex. 6
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/28/2012 02:06 PM
Subject: R104RXX-0061 (2009 Audi/A5)

Lynn,

The SPO-1 Maint. has been completed on this vehicle and it is now under you for your decision.

Thank you,

Ex. 6
URS
Quality Control Auditor
Ex. 6

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 2/29/2012 3:00:06 PM
Subject: Fw: R104RXX-0077 (2009 Audi/A5)

Hi, Sebastian.

I got a call from [Ex. 6] this morning. He is very enthusiastic about having Audi test his vehicle. He will be going to Germany this summer and wants to make sure that the car is running as it should.

He asked for your phone number because he is interested in starting this process as soon as possible. He also asked for me to forward his e-mail to you: [Ex. 6]

Please let me know if you'd like me to forward your number to him.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 02/29/2012 09:55 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: Sebastian.Berenz@vw.com
Date: 02/28/2012 04:20 PM
Subject: Fw: R104RXX-0077 (2009 Audi/A5)

Hi, Sebastian.

The owner's name for the above vehicle is [Ex. 6] and his phone number is [Ex. 6] He can be reached between the hours of 08:00-18:00.

I will be contacting the other owner shortly.

Regards.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: [Ex. 6]
Cc: Sebastian.Berenz@vw.com[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 3/12/2012 6:50:40 PM
Subject: RE: Test results for your vehicle

Dear [Ex. 6]

I just called the VW representative, Mr. Sebastian Berenz, who told me that it is VW's company protocol to first contact a vehicle owner via mail then follow up with a phone call. Mr. Berenz said that he expects that you will be receiving the letter either today or tomorrow so he plans to call you soon.

Mr. Berenz also said that you may call or e-mail him, if you like. His contact information is as follows:

Sebastian Berenz
Manager In-Use Emission Compliance
Engineering Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4211
E-Mail: sebastian.berenz@vw.com

Best regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: [Ex. 6]
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/12/2012 02:38 PM
Subject: RE: Test results for your vehicle

Dear Lynn,
until today I have not heard back from AUDI, Mr. Sebastian.
Can you kindly provide me with his telephone number and EMAIL?
Thanks

[Ex. 6]

> Subject: Test results for your vehicle
> To: [Ex. 6]
> From: Sohacki.Lynn@epamail.epa.gov
> Date: Wed, 29 Feb 2012 14:24:35 -0500
>
>

> Dear **Ex. 6**
>
> Thank you for your call this morning. Attached is a letter with a
> summary of your vehicle test results.
>
> I forwarded your phone number and e-mail address to my contact at Audi
> who will, hopefully, contact you soon.
>
> Again, thank you for your participation in EPA's in-use testing program.
>
> Sincerely yours,
>
> Lynn Sohacki
> Environmental Protection Agency
> 734-214-4851
> 734-214-4869 (fax)
>
> (See attached file: R104-0077 2009 Audi A5 test results.pdf)

To: "Giles, Michael" [michael.giles@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 3/16/2012 7:30:17 PM
Subject: RE: VW Group - Jetta 1.4L ORVR Revision
[1-3-2012 vw non-integrated orvr.pdf](#)

Hi, Michael.

Your last revision addresses my concerns and answers my questions.

I will attach a scanned copy of the front page with my "review complete" statement.

Have a good weekend.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/15/2012 01:08 PM
Subject: RE: VW Group - Jetta 1.4L ORVR Revision

Hello Lynn,

Pleased find attached the latest revision of this request, which I believe will answer your questions. We concur with your comments below (see report for additional and corrected details). Please let me know if there are any others areas which are not clear. If all is good, we would appreciate your review / approval at your earliest convenience.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, March 08, 2012 3:21 PM
To: Giles, Michael
Subject: Re: VW Group - Jetta 1.4L ORVR Revision

Hi, Michael.

Thank you for the new illustrations. They were very helpful.

Ex. 4 - CBI

Ex. 4 - CBI

Let me know if you have any questions, Michael.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/06/2012 12:44 PM
Subject: VW Group - Jetta 1.4L ORVR Revision

Hello Lynn,

Please find attached a revised document with improved diagrams to describe the Jetta Hybrid ORVR system.

In addition, I have attached answers to some of the questions we discussed. If you have any further questions, please let me know. If needed I can try set up a conference call to resolve any details.

Regards,
Mike

Ex. 4 - CBI

Q5: Please describe all situations where DMTL would have reverse flow, and add this to diagrams
Only in case of refueling, preparation for refueling and after diagnostic a reverse flow over DMTL would be activ.

Q6: For the diagrams, please describe the yellow, black and mixed lines in the keys (for example in Regeneration, the line between FTIR and Carbon canister). (add for the broken line in new file)

Michael Giles
Certification Specialist

Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

[attachment "attm1_MY2013_JettaHybrid_sys-overview_7.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

VOLKSWAGEN

GROUP OF AMERICA

Mr. Jim Snyder
Compliance and Innovative Strategies Division
Office of Mobile Sources
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager – Emis. Cert. Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

January 3, 2012 Date

Subject: Pre-Certification Submission of Non Integrated Onboard
Refueling Vapor Recovery System Description (including a sealed
fuel tank)

VOLKSWAGEN GROUP OF AMERICA, INC.
1800 HAMMILL ROAD
AUBURN HILLS, MI 48326
PHONE: (248) 754-5000

Dear Mr. Snyder,

Volkswagen Group of America, Inc. herewith provides, on behalf of Volkswagen AG, a pre-certification description of an evaporative/refueling emission family that incorporates an onboard refueling vapor recovery (ORVR) system. This submission is provided in response to the updated information request described by the U.S. Environmental Protection Agency in their manufacturers guidance correspondence, VPCD-98-15 (LDV/LDT/SV/ICI) and CCD-00-10 (LDV/LDT/SV/ICI).

The system description applies to the following 2013 model year Volkswagen vehicle:

<u>Model Year</u>	<u>EVAP/Refueling Family</u>	<u>Vehicle Models</u>
2013	DVWXR0110PHE (LEV II / Tier 2)	VW Jetta Hybrid 1.4I

Specific responses to the information requirements listed in Enclosure I of the manufacturer guidance correspondence are enclosed with this letter.

If you have any questions with regard to this information please contact our office in Auburn Hills at (248) 754-4229.

Sincerely,

For *Mike Giles,*
Leonard W. Kata
Volkswagen Group of America, Inc.

Engineering and Environmental Office

Enclosures

*3/16/12
EPA review complete. Review
includes documents received
by EPA on 3/6/12 and 3/15/12.*

L. Schuchman

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 3/21/2012 6:23:30 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R105RXX-0024 (2009 Audi/A5) - VIN# Ex. 6 0730 Veh. Incoming on 3/27/12 (Tuesday)

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 3/21/2012 7:30:20 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

I asked **Ex. 6** if these maintenaces can both be done on Thursday morning. I'll let you know if there is a problem.

Listed below is the information for the vehicles that we have scheduled for next week.

R104RXX-0050 (2009 Audi/A5) - VIN# **Ex. 6** 0800 Veh. Pick up on 3/29/12 (Thursday)

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 3/30/2012 8:40:30 PM
Subject: Re: EPA Surveillance Program 9AD XV03.23LC - 3.2I AVS MY 2009
sebastian.berenz@vw.com

Thanks, Sebastian. Have a good weekend!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA
Date: 03/30/2012 04:18 PM
Subject: EPA Surveillance Programm 9AD XV03.23LC - 3.2I AVS MY 2009

Hello Lynn,

Yesterday we inspected the two Audi A5s in your lab.
Both seemed to be alright. But one turned out to be a manual 6-speed instead of an automatic.
Therefore I have to change the parameter sheet.

Please use the attached version for vehicle: R105RXX-0024
The shift schedule is the standard EPA 6-speed schedule.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
[attachment "parameters form Ex. 6 R105RXX-0024.xlsx" deleted by Lynn
Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 4/2/2012 4:01:07 PM
Subject: Re: FW: In-use vehicles scheduled for next week - Correction
[parameters form](#) [Ex. 6](#) [R104RXX-0050.xlsx](#)
[parameters form](#) [Ex. 6](#) [R105RXX-0024.xlsx](#)
sebastian.berenz@vw.com
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hi, Sebastian.

Vehicle R105-0024 is a manual transmission vehicle. What would the shift schedules be for it?

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/22/2012 09:41 AM
Subject: FW: In-use vehicles scheduled for next week - Correction

Sorry Lynn,

But I had the wrong weight in the sheet. Both vehicles are automatics according to our information and run in the 4000 pound class.

Please use these ones.

Sorry for that.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Thursday, March 22, 2012 9:20 AM
To: Lynn Sohacki (Sohacki.Lynn@epamail.epa.gov)
Subject: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test requests for the two Audi A5s for test group 9AD XV03.23LC.

We will be at your laboratory on Thursday, 29th of March at 10am to inspect both cars.

Let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 4/10/2012 3:21:57 PM
Subject: Notification of a new in-use surveillance test class R136
[NOTIF-R-136-Volkswagen.pdf](#)

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

April 9, 2012

OFFICE OF
AIR AND RADIATION

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Mr. Reineke,

The Environmental Protection Agency will test a 2010 model-year Volkswagen test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of three or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure, highway cycle and US06 will follow a single LA-4 preconditioning cycle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

One vehicle may be subjected to an evaporative test per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, reading "Lynn Sohacki".

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	AVWXV02.5259
<u>Estimated Start Date</u>	Week-ending June 1, 2012
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214-4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	R136/R137 (low-mileage / high-mileage)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 4/10/2012 4:42:51 PM
Subject: Test data for in-use vehicle
[R105RXX-0024.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

0130

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0161-002		Vehicle ID: R105RXX-0024					
Test Date: 4/5/2012		MFR Name: AUDI					
Key Start / Hot Soak: 06:41:02 / 09:36		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: MANUAL					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980004					
Calculation Method: Gasoline		Beginning Odometer: 054900.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 16.3 hours					
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	20.863	24.466	1.867	1.085	2.837		
Ambient	2.361	0.000	0.019	0.044	1.939		
Net Concentration	18.694	24.466	1.849	1.045	1.056	17.443	
Remarks:							
Phase 2							
Sample	2.292	0.297	0.410	0.765	1.844		
Ambient	2.398	0.000	0.013	0.043	1.937		
Net Concentration	0.030	0.297	0.398	0.724	0.018	0.009	
Remarks:							
Phase 3							
Sample	5.111	6.590	1.224	0.938	2.001		
Ambient	2.398	0.000	0.016	0.044	1.931		
Net Concentration	2.881	6.590	1.208	0.898	0.205	2.638	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.241	0.638	0.072	428.1	0.016	0.225	20.765
Phase 2	0.001	0.012	0.024	470.0	0.000	0.000	18.990
Phase 3	0.037	0.171	0.047	366.0	0.003	0.034	24.358
Weighted	0.06046	0.18536	0.04023	432.752	0.00432	0.05603	
Fuel Economy							
	Gasoline MPG	Dyno Settings					
Phase 1	20.72	Dyno #: D329 - AWD					
Phase 2	18.95	Inertia: 4000					
Phase 3	24.30	EPA Set Co A: 5.45					
		EPA Set Co B: -0.1349					
		EPA Set Co C: 0.0188					
Weighted	20.54	Emiss-Bench: Mexa 7200sle					

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0161-002

Vehicle ID: R105RXX-0024

Results




	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.863	2.280	0.256	1529.5	0.056	0.805	1.185
Phase 2	0.002	0.047	0.094	1810.3	0.002	0.001	
Phase 3	0.133	0.613	0.167	1311.2	0.011	0.121	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.05	29.05	29.07	
Avg Cell Temp (degF)	72.34	72.08	71.81	
Dew Point (degF)	48.86	48.31	48.54	
Specific Humidity (grains/lbm)	52.86	51.75	52.17	
NOx Corr Factor	0.9058	0.9015	0.9031	
CO2 Dilution Factor	12.304	17.514	14.266	
CFV Vmix (scf @68F)	2826.11	4826.43	2819.61	
CVS Flow Rate Avg (scfm)	334.12	333.01	333.62	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.50	869.60	507.10	
Distance (miles)	3.573	3.852	3.582	
Bag Analysis Time (secs)	879.1	1100.0	161.4	

CISD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2012-0161-003			Vehicle ID: R105RXX-0024				
Test Date: 4/5/2012			MFR Name: AUDI				
Key Start: 07:52:45			MFR Codes: 640 ADX				
Fuel Container ID: F00023			Config #: 00				
Fuel Type: 61 Tier 2 Cert Test Fuel			Transmission: MANUAL				
Test Procedure: 03 HWFET (hwfetprep_hwfet)			Shift Schedule: A09980010				
Calculation Method: Gasoline			Beginning Odometer: 054911.0 MI				
Pretest Remarks:			Drive Schedule: hwfet_hwfet				
							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.181	12.975	0.259	1.152	1.968		
Ambient	2.403	0.000	0.010	0.044	1.929		
Net Concentration	0.985	12.975	0.249	1.112	0.205	0.742	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.007	0.176	0.005	237.4	0.002	0.005	37.552
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>			<u>Dyno #:</u> D329 - AWD		
Phase 1	37.47				Inertia: 4000		
					EPA Set Co A: 5.45		
					EPA Set Co B: -0.1349		
					EPA Set Co C: 0.0188		
					Emiss-Bench: Mexa 7200sle		
<div style="display: flex; justify-content: space-between;"> v101208 - d329 EPAVDAEm120405072959 Page 1 of 2 Print Time 09-Apr-2012 09:05 </div>							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0161-003

Vehicle ID: R105RXX-0024

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.068	1.805	0.051	2430.5	0.016	0.051	1.185

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.08			
Avg Cell Temp (degF)	72.34			
Dew Point (degF)	48.10			
Specific Humidity (grains/lbm)	51.28			
NOx Corr Factor	0.8997			
CO2 Dilution Factor	11.617			
CFV Vmix (scf @68F)	4218.66			
CVS Flow Rate Avg (scfm)	330.83			
Fan Placement:	One Fan - Up - Front			
Phase Time (secs)	765.10			
Distance (miles)	10.239			
Bag Analysis Time (secs)	145.6			

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 4/12/2012 2:37:40 PM
Subject: Test data for in-use vehicle R104-0050
[R104RXX-0050.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C152

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0164-002

Vehicle ID: R104RXX-0050

Test Information

Test Date: 4/10/2012

MFR Name: AUDI



Key Start / Hot Soak: 10:18:22 / 09:40

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp

Shift Schedule: A09980005

Calculation Method: Gasoline

Beginning Odometer: 038566.0 MI

Pretest Remarks:

Drive Schedule: ftp3bag

Soak Period: 20.0 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	26.550	62.723	1.768	1.106	3.569	
Ambient	2.351	0.177	0.002	0.042	1.904	
Net Concentration	24.395	62.561	1.766	1.067	1.823	22.235

Remarks:

Phase 2

Sample	2.351	6.035	0.009	0.702	1.821	
Ambient	2.422	0.138	0.000	0.042	1.904	
Net Concentration	0.056	5.905	0.009	0.662	0.017	0.036

Remarks:

Phase 3

Sample	4.554	27.443	0.603	0.955	2.243	
Ambient	2.395	0.119	0.000	0.043	1.905	
Net Concentration	2.330	27.333	0.603	0.915	0.474	1.769

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

0.069

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.315	1.628	0.068	436.4	0.027	0.287	20.288
Phase 2	0.001	0.244	0.001	430.5	0.000	0.001	20.715
Phase 3	0.030	0.707	0.023	371.9	0.007	0.023	23.924
Weighted	0.07395	0.65823	0.02076	415.570	0.00777	0.06599	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #: D329 - AWD
Phase 1	20.24		Inertia: 4000
Phase 2	20.67		EPA Set Co A: -11.51
Phase 3	23.87		EPA Set Co B: 0.3573
			EPA Set Co C: 0.01648
Weighted	21.34		Emiss-Bench: Mexa 7200sle

v101208 - d329 EPAVDAEm120410 00900

Page 1 of 2

Print Time 11-Apr-2012 07:04

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0164-002

Vehicle ID: R104RXX-0050

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	1.122	5.807	0.243	1556.2	0.097	1.022	1.185
Phase 2	0.004	0.938	0.002	1652.2	0.002	0.003	
Phase 3	0.107	2.531	0.083	1331.5	0.025	0.081	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.95	28.96	28.96	
Avg Cell Temp (degF)	71.99	72.36	72.50	
Dew Point (degF)	48.23	48.12	49.04	
Specific Humidity (grains/lbm)	51.77	51.56	53.37	
NOx Corr Factor	0.9016	0.9008	0.9077	
CO2 Dilution Factor	12.022	19.056	13.990	
CFV Vmix (scf @68F)	2815.44	4815.83	2808.81	
CVS Flow Rate Avg (scfm)	332.99	332.32	332.27	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.29	869.50	507.21	
Distance (miles)	3.566	3.838	3.581	
Bag Analysis Time (secs)	879.0	1104.1	161.4	

NVFEL Laboratory Test Data Final Laboratory Test Results

CVS

Test Number: 2012-0164-003

Vehicle ID: R104RXX-0050

Test Information



Test Date: 4/10/2012

Key Start: 12:49:13

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 038578.0 MI

Drive Schedule: hwfet_hwfet

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.764	19.804	0.254	0.880	2.055	
Ambient	2.342	0.000	0.000	0.042	1.904	
Net Concentration	1.576	19.804	0.253	0.840	0.277	1.248

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.015	0.390	0.007	260.2	0.003	0.012	34.213

Fuel Economy

Phase 1

Gasoline MPG

34.13

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4000

EPA Set Co A: -11.51

EPA Set Co B: 0.3573

EPA Set Co C: 0.01648

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0164-003

Vehicle ID: R104RXX-0050

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.158	4.003	0.076	2668.1	0.032	0.125	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.97			
Avg Cell Temp (degF)	72.52			
Dew Point (degF)	48.53			
Specific Humidity (grains/lbm)	52.34			
NOx Corr Factor	0.9037			
CO2 Dilution Factor	15.194			
CFV Vmix (scf @68F)	6130.94			
CVS Flow Rate Avg (scfm)	480.80			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.10			
Distance (miles)	10.254			
Bag Analysis Time (secs)	145.6			

C150

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2012-0164-004

Vehicle ID: R104RXX-0050

Test Information



Test Date: 4/10/2012
Key Start: 13:32:22
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 90 US06 (us06warmup_us06)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980041
Beginning Odometer: 038599.0 MI
Drive Schedule: us06_us06

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.714	31.724	1.066	1.104	1.904	
Ambient	2.516	0.000	0.000	0.043	1.904	
Net Concentration	1.405	31.724	1.066	1.065	0.158	1.218

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.016	0.743	0.037	391.9	0.002	0.014	22.702

Fuel Economy

Gasoline MPG

Phase 1 22.65

Dyno Settings

Dyno #: D329 - AWD
Inertia: 4000
EPA Set Co A: -11.51
EPA Set Co B: 0.3573
EPA Set Co C: 0.01648

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2012-0164-004

Vehicle ID: R104RXX-0050

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.130	5.942	0.296	3134.1	0.017	0.113	1.185

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.97			
Avg Cell Temp (degF)	72.17			
Dew Point (degF)	48.36			
Specific Humidity (grains/lbm)	52.00			
NOx Corr Factor	0.9025			
CO2 Dilution Factor	12.097			
CFV Vmix (scf @68F)	5680.68			

CVS Flow Rate Avg (scfm) 558.30

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	610.50
Distance (miles)	7.997
Bag Analysis Time (secs)	155.6

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 7/19/2011 8:05:45 PM
Subject: RE: In-use vehicles scheduled for next week
Touareg MY05_fuel_drain.pdf
parameters form Ex. 6 xlsx

Hello Lynn,

Thanks for letting me know.

Attached you will find the parameter sheet and the drain procedure for the Touareg. We would like to come over on Tuesday and check the car in.
Probably John white will let me know when he wants us around.

Is there already any update on the 2.5l Jetta MY2009?

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, July 19, 2011 3:34 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0020 (2005 VW/Touareg) - VIN# Ex. 6 07/26/11
(Tuesday) 0930 Veh. Pick up.

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 7/20/2011 8:54:07 PM
Subject: RE: Test data for in-use vehicle P157-0144

Hello Lynn,

Thank you very much.
I checked the results and they look pretty good to me. I would say it passed.

Let me know if you have a different opinion.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, July 20, 2011 3:43 PM
To: Berenz, Sebastian
Subject: Test data for in-use vehicle P157-0144

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: P157RXX-0144.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 7/28/2011 7:09:18 PM
Subject: RE: In-use vehicles Touareg

Sorry for that Lynn,

That is not necessary. ABS can stay like it is.
Even ESP does not need to be deactivated, because of the permanent all wheel drive and the use of an all wheel drive dyno.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

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<http://www.volkswagen.com>

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-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, July 28, 2011 3:05 PM
To: Berenz, Sebastian
Subject: Re: In-use vehicles Touareg

Thanks, Sebastian.

There is also a mention on the parameter form of a document for ABS disabling. Do you have another document for that process?

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 07/28/2011 10:59 AM

Subject: In-use vehicles Touareg

Hello Lynn,

Sorry for responding so late.

Attached you will find the parameter sheet for the car for next week. We will check the car in and I will contact John White to find an appointment.

P121RXX-0016 (2005 VW/Touareg) - VIN#

Ex. 6

<<parameters form_P121RXX-0016.xlsx>>

Also I attach two more documents.

One explains the fuel drain and the canister loading. We already discussed that with the guys in the shop and they have a cable from us to activate the pumps.

<<Touareg MY05_fuel_drain.pdf>>

For the one car with the adjustable air suspension, I created another sheet that shows you how to setup the vehicle for the dyno.

<<Touareg road leveler mechanism.pdf>>

If you have any further questions, please do not hesitate to contact me.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "parameters form_P121RXX-0016.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Touareg MY05_fuel_drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Touareg road leveler mechanism.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 8/16/2011 7:05:33 PM
Subject: RE: Test data for in-use vehicle P21-0020

Hello Lynn,

Thank you very much.
As far as I can see this Touareg passed very good.

Let me know if you have any questions or the results for the other Touareg.

Thank you very much.

Kind regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, August 16, 2011 2:39 PM
To: Berenz, Sebastian
Subject: Test data for in-use vehicle P21-0020

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: P121RXX-0020.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 8/19/2011 1:31:41 PM
Subject: RE: Test data for in-use vehicle P121-0016

Hello Lynn,

Thank you for the results. They look very good. The Touareg passed as far as I see.

Let me know whenever you plan bringing in more cars.

Kind regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, August 18, 2011 3:04 PM
To: Berenz, Sebastian
Subject: Test data for in-use vehicle P121-0016

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: P121RXX-0016.pdf)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 1/9/2013 4:59:35 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN# Ex. 6 0700 Vehicle Pick up on 1/15/13 (Tuesday)

S109RXX-0034 (2010 VW/Jetta) - VIN# Ex. 6 0900 Vehicle Pick up on 1/6/13
(Wednesday)

S108RXX-0014 (2010 VW/Jetta) - VIN# Ex. 6 0900 Vehicle Pick up on 1/17/13
(Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: CN=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 1/11/2013 6:27:43 PM
Subject: RE: In-use vehicles scheduled for next week
Sebastian.berenz@vw.com

Hi, Sebastian.

You are welcome to the maintenance, as usual. Has Ex. 6 of URS called you about the the times for the maintenances yet?

I understand that you will instruct URS how to deactivate the ABS system and drain and refill the vehicles. We would also like to have written instructions that we can post in the vehicles and refer to if we have questions. I do not need these before the maintenances but please bring them with you when you come for the maintenances.

Have a great weekend!

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 01/11/2013 09:03 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test requests for the three cars you bring in next week.

I filled everything out and we will instruct URS how to deactivate the ABS system to operate the vehicle on the dyno and how to drain the vehicles and refill.
All cars do not need any canister loading, since they are Diesel vehicles.

It would be great if URS could let us when we can come in to inspect the cars in Ann Arbor.

Please let me know if you have any questions.

Thank you very much.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

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From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 09, 2013 12:00 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN#	Ex. 6	0700 Vehicle Pick up on 1/15/13 (Tuesday)
S109RXX-0034 (2010 VW/Jetta) - VIN#	Ex. 6	0900 Vehicle Pick up on 1/6/13 (Wednesday)
S108RXX-0014 (2010 VW/Jetta) - VIN#	Ex. 6	0900 Vehicle Pick up on 1/17/13 (Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)[attachment "parameters form_ **Ex. 6** S109RXX-0034.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_ **Ex. 6** S108RXX-0014.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_ **Ex. 6** S108RXX-0047.xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 1/28/2013 8:48:31 PM
Subject: Test data for in-use vehicle S108-0047
[S108RXX-0047.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C150

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-002

Vehicle ID: S108RXX-0047

Test Information

Test Date: 1/24/2013

MFR Name VOLKSWAGEN

Key Start / Hot Soak: 10:46:14 / 09:46

MFR Codes: 590

VWX

Fuel Container ID: F00022

Config #: 00

Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur

Transmission: AUTO

Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)

Shift Schedule: A09980005

Calculation Method: Diesel

Beginning Odometer: 034608.0 MI

Pretest Remarks:

Drive Schedule: ftp3bag

Soak Period: 20.4 hours



Bag Data

Phase 1

	THC / IntTHC (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	14.790 / 16.917	46.095	3.550	0.753	8.288	
Ambient	2.132	0.261	0.017	0.043	1.952	
Net Concentration	12.779 / 14.906	45.849	3.535	0.712	6.447	7.905

Remarks:

Phase 2

Sample	3.813 / 3.650	0.323	0.033	0.464	3.181	
Ambient	2.122	0.056	0.012	0.043	1.962	
Net Concentration	1.764 / 1.601	0.268	0.021	0.423	1.287	0.204

Remarks:

Phase 3

Sample	12.245 / 12.282	0.613	0.169	0.696	10.884	
Ambient	2.124	0.049	0.008	0.043	1.957	
Net Concentration	10.232 / 10.269	0.567	0.162	0.656	9.029	0.463

Remarks:

Phase 4

Sample	
Ambient	
Net Concentration	

Remarks: This test has particulate results.

Results

	THC / IntTHC (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	- / 0.197	1.223	0.140	298.5	0.099	0.104	33.985
Phase 2	- / 0.034	0.011	0.001	281.7	0.031	0.004	36.310
Phase 3	- / 0.135	0.015	0.006	272.7	0.137	0.006	37.460
Weighted	0.09524	0.26329	0.03142	282.698	0.07427	0.02551	

Fuel Economy

	Diesel MPG	Dyno Settings	Dyno #: D329 - FWD
Phase 1	33.80		Inertia: 3750
Phase 2	36.11		EPA Set Co A: 17.50
Phase 3	37.25		EPA Set Co B: 0.0360
			EPA Set Co C: 0.01930
Weighted	35.87		Emiss-Bench: Mexa 7200dle

v120518 - d329 EPAVDAEm130124102403

Page 1 of 5

Print Time 28-Jan-2013 11:53

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2013-0093-002

Vehicle ID: S108RXX-0047

Results



	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	- / 0.702	4.359	0.499	1064.1	0.351	0.372	1.086
Phase 2	- / 0.129	0.044	0.005	1080.7	0.120	0.016	
Phase 3	- / 0.483	0.054	0.023	978.1	0.491	0.022	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.59	29.60	29.60	
Avg Cell Temp (degF)	74.25	74.25	74.31	
Dew Point (degF)	48.83	49.15	49.41	
Specific Humidity (grains/lbm)	51.81	52.44	52.94	
NOx Corr Factor	0.9017	0.9041	0.9061	
CO2 Dilution Factor	17.664	28.852	19.214	
CFV Vmix (scf @68F)	2877.21	4922.48	2872.09	
Total Vmix (scf @68F)	2883.92	4933.26	2878.56	
CVS Flow Rate Avg (scfm)	340.50	339.72	339.76	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.99	869.40	507.21	
Distance (miles)	3.564	3.837	3.587	
Bag Analysis Time (secs)	1003.0	248.6	135.9	

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-002

Vehicle ID: S108RXX-0047

Test Information



Test Date: 1/24/2013

Key Start: 10:46:14 / 09:46

Fuel Container ID: F00022

Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur

Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)

Calculation Method: Diesel

Pretest Remarks:

MFR Name: VOLKSWAGEN

MFR Codes: 590 VWX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980005

Beginning Odometer: 034608.0 MI

Drive Schedule: ftp3bag

Soak Period: 20.4 hours

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1	A	447291	145.2619	0.0000	0.00000	0.000	0.000	
	B	447292	145.3669	145.3747	0.00787	2.962	0.831	
	C	447293	143.6182	143.6274	0.00914	3.451	0.968	

Remarks:

Phase 2	A	447294	142.8384	0.0000	0.00000	0.000	0.000	
	B	447295	142.6427	142.6477	0.00492	1.915	0.499	
	C	447296	143.7070	143.7099	0.00284	1.111	0.290	

Remarks:

Phase 3	A	447297	144.1736	0.0000	0.00000	0.000	0.000	
	B	447298	144.8189	144.8284	0.00956	3.683	1.027	
	C	447299	144.2734	144.2761	0.00274	1.063	0.296	

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00567	3.207	0.900
Phase 2	0.00259	1.513	0.394
Phase 3	0.00410	2.373	0.662

All filter weights are corrected for buoyancy.

Weighted All Filters:

0.57259

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	145.15995	145.16111	0.00116	PASS	Inertia: 3750
	2	144.62114	144.62370	0.00255	PASS	EPA Set Co A: 17.50
						EPA Set Co B: 0.0360
						EPA Set Co C: 0.01930

Emissions Bench Mexa 7200dle



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0093-002

Vehicle ID: S108RXX-0047

<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>
Timestamp	Factor	(id)	(°F)	(°F)	(°Hg)	Status @ timestamp
Pre-test 1/23/13 14:30	1.0011169	022298	71.7	49.1	29.16	NORM @ 01/18/13 18:10:28
Post-test 1/24/13 15:36	1.0011325	022298	71.6	49.1	29.55	NORM @ 01/24/13 10:47:52

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.59	29.60	29.60	
Avg Cell Temp (degF)	74.25	74.25	74.31	
Dew Point (degF)	48.83	49.15	49.41	
Specific Humidity (grains/lbm)	51.81	52.44	52.94	
NOx Corr Factor	0.9017	0.9041	0.9061	
Dilution Factor	17.66	28.85	19.21	
CFV Vmix (scf @68F)	2877.21	4922.48	2872.09	
Sample Volume A (scf @68F)	-8.586	-14.486	-8.438	
Sample Volume B (scf @68F)	7.658	12.676	7.472	
Sample Volume C (scf @68F)	7.639	12.588	7.432	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	2.237	3.593	2.155	
Total Vmix (scf @68F)	2883.92	4933.26	2878.56	
Phase Time (sec)	506.99	869.40	507.21	
Distance (miles)	3.564	3.837	3.587	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.0	42.7	42.3	
PSU Dil Air B (degC)	43.1	41.4	42.3	
PSU Dil Air C (degC)	43.4	41.6	39.8	
PSU Filter A (degC)	47.3	49.4	48.6	
PSU Filter B (degC)	51.2	53.1	51.2	
PSU Filter C (degC)	50.2	51.7	51.3	
PSU Dil Flow A (lpm)	30.0	30.0	29.9	
PSU Dil Flow B (lpm)	30.0	30.0	29.9	
PSU Dil Flow C (lpm)	30.0	30.0	29.9	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

CISD

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-003

Vehicle ID: S108RXX-0047

Test Information



Test Date: 1/24/2013

Key Start: 12:34:52

Fuel Container ID: F00022

Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur

Test Procedure: 03.01 HWFET Only (hwfet)

Calculation Method: Diesel

Pretest Remarks:

MFR Name VOLKSWAGEN

MFR Codes: 590 VWX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 034619.0 MI

Drive Schedule: hwfetwarmup_hwfet

Bag Data

Phase 1

	THC / IntTHC (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	7.119 / 7.128	0.433	0.618	0.917	6.540	
Ambient	1.996	0.006	0.008	0.043	1.941	
Net Concentration	5.259 / 5.269	0.427	0.610	0.877	4.733	0.130

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.

Results

	THC / IntTHC (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	- / 0.036	0.006	0.013	190.9	0.038	0.001	53.562

Fuel Economy

Phase 1 Diesel MPG 53.27

Dyno Settings

Dyno #: D329 - FWD

Inertia: 3750

EPA Set Co A: 17.50

EPA Set Co B: 0.0360

EPA Set Co C: 0.01930

Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-003

Vehicle ID: S108RXX-0047

Results



	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	- / 0.370	0.061	0.128	1955.5	0.385	0.009	1.086

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.58			
Avg Cell Temp (degF)	74.25			
Dew Point (degF)	49.02			
Specific Humidity (grains/lbm)	52.22			
NOx Corr Factor	0.9033			
CO2 Dilution Factor	14.605			
CFV Vmix (scf @68F)	4282.94			
Total Vmix (scf@68F)	4305.34			
CVS Flow Rate Avg (scfm)	335.92			

Fan Placement: One Fan - Up - Front

Phase Time (secs) 765.00

Distance (miles) 10.243

Bag Analysis Time (secs)

NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0093-003

Vehicle ID: S108RXX-0047

Test Information



Test Date: 1/24/2013

Key Start: 12:34:52

Fuel Container ID: F00022

Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur

Test Procedure: 03.01 HWFET Only (hwfet)

Calculation Method: Diesel

Pretest Remarks:

MFR Name: VOLKSWAGEN

MFR Codes: 590 VWX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 034619.0 MI

Drive Schedule: hwfetwarmup_hwfet

All filter weights are corrected for buoyancy.

<u>Particulate</u>	<u>Filter</u> <u>Sampler</u>	<u>Filter</u> <u>No.</u>	<u>Tare</u> <u>(Pre Wt)</u>	<u>Gross</u> <u>(Post Wt)</u>	<u>Net Wt</u> <u>mg</u>	<u>Total Mass</u> <u>mg</u>	<u>Total Mass</u> <u>mg / mi</u>	<u>Filter</u> <u>comment</u>
Phase 1								
	B	447411	142.8209	142.8231	0.00219	0.842	0.082	
	C	447412	143.1749	143.1803	0.00540	2.076	0.203	

Remarks:

Exclude A

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	<u>Net Wt</u> <u>mg</u>	<u>Total Mass</u> <u>mg</u>	<u>Total Mass</u> <u>mg / mi</u>
Phase 1	0.00379	1.459	0.142

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

		<u>Tare</u> <u>(Pre Wt)</u>	<u>Gross</u> <u>(Post Wt)</u>	<u>Net Wt</u> <u>mg</u>	<u>Stability Check</u>	<u>Dyno #:</u> D329 - FWD
2% of Avg Net or 0.01 mg	No.				PASS/FAIL	Inertia: 3750
0.01	1	145.15977	145.16038	0.00061	PASS	EPA Set Co A: 17.50
	2	144.62237	144.62307	0.00071	PASS	EPA Set Co B: 0.0360
						EPA Set Co C: 0.01930

Emissions Bench Mexa 7200dle



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE


Test Number: 2013-0093-003

Vehicle ID: S108RXX-0047

<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>	
Timestamp	Factor	(id)	(°F)	(°F)	(°Hg)	Status @ timestamp	
Pre-test	1/24/13 7:29	1.0011267	022298	72.2	49.9	29.44	NORM @ 01/23/13 15:33:28
Post-test	1/24/13 15:53	1.0011316	022298	71.9	49.8	29.55	NORM @ 01/24/13 10:47:52

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.58			
Avg Cell Temp (degF)	74.25			
Dew Point (degF)	49.02			
Specific Humidity (grains/lbm)	52.22			
NOx Corr Factor	0.9033			
Dilution Factor	14.60			
CFV Vmix (scf @68F)	4282.94			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	11.207			
Sample Volume C (scf @68F)	11.192			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	7.466			
Total Vmix (scf @68F)	4305.34			
Phase Time (sec)	765.00			
Distance (miles)	10.243			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.0			
PSU Dil Air B (degC)	41.0			
PSU Dil Air C (degC)	41.0			
PSU Filter A (degC)	47.7			
PSU Filter B (degC)	48.9			
PSU Filter C (degC)	50.5			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.9			
PSU Dil Flow C (lpm)	29.9			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

CISD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2013-0093-004			Vehicle ID: S108RXX-0047				
	Test Information						
	Test Date: 1/24/2013		MFR Name: VOLKSWAGEN				
	Key Start: 13:55:24		MFR Codes: 590 VWX				
	Fuel Container ID: F00022		Config #: 00				
	Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur		Transmission: AUTO				
	Test Procedure: 90 US06 (us06warmup_us06)		Shift Schedule: A09980041				
Calculation Method: Diesel			Beginning Odometer: 034640.0 MI				
Pretest Remarks:			Drive Schedule: us06_us06				
<hr/>							
Bag Data		<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample		19.995 / 20.039	0.582	12.354	1.009	17.993	
Ambient		1.999	0.000	0.035	0.043	1.945	
Net Concentration		18.147 / 18.191	0.582	12.321	0.969	16.194	0.604
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Remarks: This test has particulate results.							
Results		<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
Phase 1		- / 0.182	0.012	0.366	308.1	0.188	0.006
							33.151
Fuel Economy		<u>Diesel MPG</u>	<u>Dyno Settings</u>				<u>Dyno #:</u> D329 - FWD
Phase 1		32.97					Inertia: 3750
							EPA Set Co A: 17.50
							EPA Set Co B: 0.0360
							EPA Set Co C: 0.01930
							Emiss-Bench: Mexa 7200dle
v120518 - d329 EPAVDAEm130124133324		Page 1 of 2				Print Time 28-Jan-2013 11:56	

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2013-0093-004

Vehicle ID: S108RXX-0047

Results



	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	- / 1.455	0.094	2.925	2460.1	1.498	0.048	1.086

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.57			
Avg Cell Temp (degF)	74.06			
Dew Point (degF)	47.94			
Specific Humidity (grains/lbm)	50.13			
NOx Corr Factor	0.8953			
CO2 Dilution Factor	13.255			
CFV Vmix (scf @68F)	4880.46			
Total Vmix (scf@68F)	4897.95			
CVS Flow Rate Avg (scfm)	485.70			

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	602.90
Distance (miles)	7.986
Bag Analysis Time (secs)	135.9

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-004

Vehicle ID: S108RXX-0047

Test Information



Test Date: 1/24/2013

MFR Name VOLKSWAGEN

Key Start: 13:55:24

MFR Codes: 590 VWX

Fuel Container ID: F00022

Config #: 00

Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur

Transmission: AUTO

Test Procedure: 90 US06 (us06warmup_us06)

Shift Schedule: A09980041

Calculation Method: Diesel

Beginning Odometer: 034640.0 MI

Pretest Remarks:

Drive Schedule: us06_us06

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447408	143.3112	143.3152	0.00397	2.223	0.278	
	C	447409	146.7687	146.7749	0.00620	3.473	0.435	

Remarks:

Exclude A

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4Remarks: This test has particulate results.**Average Results**

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00509	2.848	0.357

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	145.15977	145.16036	0.00058	PASS/FAIL	Inertia: 3750
	2	144.62237	144.62305	0.00068	PASS	EPA Set Co A: 17.50
					PASS	EPA Set Co B: 0.0360
						EPA Set Co C: 0.01930

Emissions Bench Mexa 7200dle

v120518 - d329 EPAVDAEm130124133324

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NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0093-004

Vehicle ID: S108RXX-0047

<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>	
Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp	
Pre-test	1/24/13 7:29	1.0011267	022298	72.2	49.9	29.44	NORM @ 01/23/13 15:33:28
Post-test	1/24/13 16:05	1.0011322	022298	71.8	49.1	29.56	NORM @ 01/24/13 10:47:52

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.57			
Avg Cell Temp (degF)	74.06			
Dew Point (degF)	47.94			
Specific Humidity (grains/lbm)	50.13			
NOx Corr Factor	0.8953			
Dilution Factor	13.25			
CFV Vmix (scf @68F)	4880.46			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	8.758			
Sample Volume C (scf @68F)	8.737			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	5.832			
Total Vmix (scf @68F)	4897.95			
Phase Time (sec)	602.90			
Distance (miles)	7.986			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.0			
PSU Dil Air B (degC)	40.8			
PSU Dil Air C (degC)	41.7			
PSU Filter A (degC)	47.6			
PSU Filter B (degC)	52.3			
PSU Filter C (degC)	51.7			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.6			
PSU Dil Flow C (lpm)	29.6			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: Tobias.Glas@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 9:06:41 PM
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 9:20:44 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities
Sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
@arb.ca.gov
Ex. 7 @arb.ca.gov
@arb.ca.gov
@arb.ca.gov
Oliver.Schmidt@vw.com
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Garett.Horton@vw.com
Matthias.Barke@vw.com
Tobias.Glas@vw.com
Garett.Horton@vw.com
Sebastian.berenz@vw.com
<http://www.volkswagen.com>
(embedded image)

Of course. Vehicle S108RXX-0014 tested today. Hopefully we will get the data tomorrow.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/06/2013 04:08 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities

Thank you very much Lynn.

We will work together until the end of march and I had the chance to bring him along when we inspected one of the TDIs at your lab.
So do me a favor and keep us both in the loop for the time being since I just want to finish the TDI surveillance program first.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:03 PM
To: Berenz, Sebastian (EEO)
Subject: Re: VW/Audi personnel change IUVP responsibilities

Hi, Sebastian.

Thank you for the introduction to Mr. Tobias Glas.

It was great working with you! I wish you the best as you return to Germany.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---02/06/2013 03:55:51 PM---Hello everybody, I just want to inform you that we at VW/Audi have a personnel change for all in-use

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA, JohnH White/AA/USEPA/US@EPA, Bruce Garrison/AA/USEPA/US@EPA, Mark Maury/AA/USEPA/US@EPA, "Ex. 7" <Ex. 7@arb.ca.gov>
Cc: "Schmidt, Oliver (EEO)" <Oliver.Schmidt@vw.com>, "Johnson, Stuart (EEO)" <Stuart.Johnson@vw.com>, "Glas, Tobias" <Tobias.Glas@vw.com>, "Horton, Garrett" <Garrett.Horton@vw.com>, "Barke, Matthias" <Matthias.Barke@vw.com>
Date: 02/06/2013 03:55 PM
Subject: VW/Audi personnel change IUVP responsibilities

Hello everybody,

I just want to inform you that we at VW/Audi have a personnel change for all in-use verification program related subjects within the Engineering and Environmental Office.

Mr. Tobias Glas will take over my position as the responsible IUVP specialist for the next few years.

We will work side by side during the next couple weeks and get everything up to speed until I go back to Germany for good in march 2013.

Please contact Tobias in regards of any in-use compliance related subjects.

Tobias Glas
In-Use Emission Compliance Specialist
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Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com

As a backup you can contact also Mr. Garrett Horton with EEO at VWGoA for any in-use questions.

Garrett Horton
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Engineering & Environmental Office
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E-Mail: Garrett.Horton@vw.com

Thank you very much for all the support during the last couple years. I really enjoyed working with all of you. I am grateful for the opportunities that I had with this position and I am looking forward to start a new project.

Best regards,

Sebastian Berenz

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P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!


To: Sebastian.Berenz@vw.com;Tobias.Glas@vw.com[]; obias.Glas@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 2/11/2013 3:36:35 PM
Subject: Test data for in-use vehicle S108-0014
[S108RXX-0014.pdf](#)

Hi.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

Cert

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2013-0095-002		Vehicle ID: S108RXX-0014					
	Test Date: 2/6/2013		MFR Name VOLKSWAGEN				
	Key Start / Hot Soak: 06:50:37 / 09:54		MFR Codes: 590 VWX				
	Fuel Container ID: F00022		Config #: 00				
	Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur		Transmission: AUTO				
	Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)		Shift Schedule: A09980005				
	Calculation Method: Diesel		Beginning Odometer: 024109.0 MI				
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 18.3 hours					
Bag Data							
	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	16.395 / 17.964	25.799	0.587	0.758	9.163		
Ambient	1.940	0.284	0.013	0.044	1.928		
Net Concentration	14.566 / 16.134	25.531	0.575	0.716	7.344	8.158	
Remarks:							
Phase 2							
Sample	3.626 / 3.530	0.355	0.018	0.479	3.198		
Ambient	2.198	0.084	0.014	0.044	1.983		
Net Concentration	1.506 / 1.411	0.274	0.004	0.436	1.286	0.014	
Remarks:							
Phase 3							
Sample	14.922 / 14.774	0.588	0.056	0.710	13.340		
Ambient	1.996	0.114	0.021	0.045	1.949		
Net Concentration	13.031 / 12.884	0.481	0.036	0.667	11.494	0.401	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: This test has particulate results.							
Results							
	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.212	0.676	0.023	298.3	0.111	0.107	34.106
Phase 2	- / 0.030	0.012	0.000	289.4	0.031	0.000	35.340
Phase 3	- / 0.168	0.013	0.001	276.2	0.174	0.005	36.969
Weighted	0.10547	0.14977	0.00521	287.627	0.08699	0.02380	
Fuel Economy							
	<u>Diesel MPG</u>	<u>Dyno Settings</u>					
Phase 1	33.92	Dyno #: D329 - FWD					
Phase 2	35.15	Inertia: 3625					
Phase 3	36.76	EPA Set Co A: 15.04					
		EPA Set Co B: 0.0262					
		EPA Set Co C: 0.01927					
Weighted	35.26	Emiss-Bench: Mexa 7200dle					
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NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-002

Vehicle ID: S108RXX-0014

Results



	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 0.753	2.405	0.080	1060.5	0.396	0.381	1.086
Phase 2	- / 0.113	0.044	0.001	1104.5	0.119	0.001	
Phase 3	- / 0.600	0.045	0.005	984.9	0.619	0.019	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.21	29.21	29.23	
Avg Cell Temp (degF)	74.07	74.08	74.12	
Dew Point (degF)	48.63	48.75	48.69	
Specific Humidity (grains/lbm)	52.11	52.33	52.18	
NOx Corr Factor	0.9029	0.9037	0.9031	
CO2 Dilution Factor	17.587	27.976	18.845	
CFV Vmix (scf @68F)	2842.39	4861.39	2834.62	
Total Vmix (scf@68F)	2857.27	4886.92	2849.52	
CVS Flow Rate Avg (scfm)	336.24	335.31	335.39	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.20	869.90	507.10	
Distance (miles)	3.555	3.816	3.566	
Bag Analysis Time (secs)	1003.5	248.6	135.7	

NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Information



Test Number: 2013-0095-002
Test Date: 2/6/2013
Key Start: 06:50:37 / 09:54
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)
Calculation Method: Diesel
Pretest Remarks:

Vehicle ID: S108RXX-0014
MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 024109.0 MI
Drive Schedule: ftp3bag
Soak Period: 18.3 hours

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447729	145.0779	145.1103	0.03240	12.447	3.501	
	C	447732	144.4888	144.4947	0.00586	2.250	0.633	

Remarks:

Exclude A

Phase 2

B	447730	146.8385	146.8423	0.00379	1.451	0.380
C	447733	146.4284	146.4321	0.00368	1.411	0.370

Remarks:

Phase 3

B	447731	145.7816	145.7940	0.01239	4.741	1.330
C	447734	139.8503	139.8559	0.00560	2.140	0.600

Remarks:

Exclude A

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.01913	7.348	2.067
Phase 2	0.00374	1.431	0.375
Phase 3	0.00899	3.441	0.965

All filter weights are corrected for buoyancy.

Weighted All Filters:

0.88830

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	145.16103	145.16190	0.00087	PASS	Inertia: 3625
	2	144.62484	144.62640	0.00156	PASS	EPA Set Co A: 15.04
						EPA Set Co B: 0.0262
						EPA Set Co C: 0.01927



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-002

Vehicle ID: S108RXX-0014

Vehicle ID: 51001XX-0014							
<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>	
Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp	
<u>Pre-test</u>	2/5/13 7:20	1.0011085	022298	71.8	49.2	28.94	NORM @ 02/04/13 07:09:44
<u>Post-test</u>	2/6/13 12:31	1.0011214	022298	71.8	49.3	29.28	NORM @ 02/04/13 07:09:44

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.21	29.21	29.23	
Avg Cell Temp (degF)	74.07	74.08	74.12	
Dew Point (degF)	48.63	48.75	48.69	
Specific Humidity (grains/lbm)	52.11	52.33	52.18	
NOx Corr Factor	0.9029	0.9037	0.9031	
Dilution Factor	17.59	27.98	18.84	
CFV Vmix (scf @68F)	2842.39	4861.39	2834.62	
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	7.438	12.769	7.444	
Sample Volume C (scf @68F)	7.444	12.762	7.459	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	4.961	8.510	4.968	
Total Vmix (scf @68F)	2857.27	4886.92	2849.52	
Phase Time (sec)	507.20	869.90	507.10	
Distance (miles)	3.555	3.816	3.566	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.6	44.6	44.6	
PSU Dil Air B (degC)	41.2	39.3	39.6	
PSU Dil Air C (degC)	41.5	41.7	41.5	
PSU Filter A (degC)	48.0	47.9	47.9	
PSU Filter B (degC)	45.3	45.6	45.8	
PSU Filter C (degC)	45.7	46.7	46.8	
PSU Dil Flow A (lpm)	0.0	0.0	0.0	
PSU Dil Flow B (lpm)	30.0	29.9	29.9	
PSU Dil Flow C (lpm)	29.9	29.9	29.9	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

Cert

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2013-0095-003		Vehicle ID: S108RXX-0014					
Test Date: 2/6/2013		MFR Name: VOLKSWAGEN					
Key Start: 08:21:45		MFR Codes: 590 VWX					
Fuel Container ID: F00022		Config #: 00					
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur		Transmission: AUTO					
Test Procedure: 3		Shift Schedule: A09980011					
Calculation Method: Diesel		Beginning Odometer: 000000.0 MI					
Pretest Remarks:		Drive Schedule: hwfet_hwfet					
Bag Data							
	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	8.651 / 8.885	13.422	0.030	0.951	7.325		
Ambient	2.374	0.210	0.030	0.046	2.047		
Net Concentration	6.445 / 6.679	13.227	0.002	0.908	5.424	0.788	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: <u>This test has particulate results.</u>							
Results							
	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.045	0.181	0.000	195.6	0.043	0.005	52.200
Fuel Economy							
	<u>Diesel MPG</u>			<u>Dyno Settings</u>		<u>Dyno #:</u> D329 - FWD	
Phase 1	51.91					Inertia: 3625	
						EPA Set Co A: 15.04	
						EPA Set Co B: 0.0262	
						EPA Set Co C: 0.01927	
Emiss-Bench: Mexa 7200dle							
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NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-003

Vehicle ID: S108RXX-0014

Results



	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	- / 0.464	1.854	0.000	2000.6	0.436	0.055	1.086

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.27			
Avg Cell Temp (degF)	74.15			
Dew Point (degF)	48.63			
Specific Humidity (grains/lbm)	51.99			
NOx Corr Factor	0.9024			
CO2 Dilution Factor	14.064			
CFV Vmix (scf @68F)	4228.91			
Total Vmix (scf@68F)	4251.34			
CVS Flow Rate Avg (scfm)	331.64			

Fan Placement: One Fan - Up - Front

Phase Time (secs) 765.11

Distance (miles) 10.228

Bag Analysis Time (secs)

NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Information



Test Number: 2013-0095-003
Test Date: 2/6/2013
Key Start: 08:21:45
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 3
Calculation Method: Diesel
Pretest Remarks:

Vehicle ID: S108RXX-0014
MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980011
Beginning Odometer: 000000.0 MI
Drive Schedule: hwfet_hwfet

All filter weights are corrected for buoyancy.								
Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / ml	Filter comment
Phase 1								
	B	446523	144.2777	144.2825	0.00476	1.800	0.176	
	C	446524	146.4705	146.4739	0.00339	1.289	0.126	

Remarks:

Exclude A

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00408	1.545	0.151

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	145.16187	145.16255	0.00068	PASS	Inertia: 3625
	2	144.62528	144.62605	0.00077	PASS	EPA Set Co A: 15.04
						EPA Set Co B: 0.0262
						EPA Set Co C: 0.01927



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-003


Vehicle ID: S108RXX-0014

Test Number: 2013-0093-003				Vehicle ID: S108RXX-0014			
WEIGHING CHAMBER		Buoyancy	Operator	Chamber Temp	Dew Point	Barometer	Last Change in Status
	Timestamp	Factor	(id)	(°F)	(°F)	(°Hg)	Status @ timestamp
Pre-test	2/5/13 12:55	1.0011060	022298	71.9	49.3	28.89	NORM @ 02/04/13 07:09:44
Post-test	2/6/13 13:40	1.0011217	022298	71.7	49.1	29.28	NORM @ 02/04/13 07:09:44

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.27			
Avg Cell Temp (degF)	74.15			
Dew Point (degF)	48.63			
Specific Humidity (grains/lbm)	51.99			
NOx Corr Factor	0.9024			
Dilution Factor	14.06			
CFV Vmix (scf @68F)	4228.91			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	11.243			
Sample Volume C (scf @68F)	11.194			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	7.479			
Total Vmix (scf @68F)	4251.34			
Phase Time (sec)	765.11			
Distance (miles)	10.228			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.6			
PSU Dil Air B (degC)	38.8			
PSU Dil Air C (degC)	41.1			
PSU Filter A (degC)	47.8			
PSU Filter B (degC)	47.3			
PSU Filter C (degC)	46.9			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.9			
PSU Dil Flow C (lpm)	29.9			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

Cent

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
		Test Number: 2013-0095-004		Vehicle ID: S108RXX-0014			
		Test Date: 2/6/2013		MFR Name: VOLKSWAGEN			
		Key Start: 09:24:56		MFR Codes: 590		VWX	
		Fuel Container ID: F00022		Config #: 00			
		Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur		Transmission: AUTO			
Test Procedure: 90 US06 (us06warmup_us06)		Shift Schedule: A09980041		Beginning Odometer: 024141.0 MI			
Calculation Method: Diesel		Drive Schedule: us06_us06					
Pretest Remarks:							
<hr/>							
Bag Data							
		<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Phase 1							
Sample		18.203 / 18.243	0.967	2.435	1.033	16.604	
Ambient		2.180	0.148	0.029	0.045	2.019	
Net Concentration		16.191 / 16.232	0.831	2.408	0.991	14.741	0.224
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Remarks: This test has particulate results.							
<hr/>							
Results							
		<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
Phase 1		- / 0.161	0.017	0.071	311.5	0.169	0.002
							Vol MPG
							(mpg)
							32.789
<hr/>							
Fuel Economy		<u>Diesel MPG</u>		<u>Dyno Settings</u>		<u>Dyno #:</u> D329 - FWD	
Phase 1		32.61				Inertia: 3625	
						EPA Set Co A: 15.04	
						EPA Set Co B: 0.0262	
						EPA Set Co C: 0.01927	
						Emiss-Bench: Mexa 7200dle	
<hr/>							
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NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-004

Vehicle ID: S108RXX-0014

Results



	<u>IHC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	- / 1.283	0.133	0.570	2486.6	1.348	0.018	1.086

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.28			
Avg Cell Temp (degF)	73.94			
Dew Point (degF)	48.71			
Specific Humidity (grains/lbm)	52.12			
NOx Corr Factor	0.9029			
CO2 Dilution Factor	12.948			
CFV Vmix (scf @68F)	4823.60			
Total Vmix (scf@68F)	4841.09			
CVS Flow Rate Avg (scfm)	480.60			

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	602.20
Distance (miles)	7.982
Bag Analysis Time (secs)	135.8

NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Information



Test Number: 2013-0095-004
Test Date: 2/6/2013
Key Start: 09:24:56
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 90 US06 (us06warmup_us06)
Calculation Method: Diesel
Pretest Remarks:

Vehicle ID: S108RXX-0014
MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980041
Beginning Odometer: 024141.0 MI
Drive Schedule: us06_us06

All filter weights are corrected for buoyancy.								
Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447735	139.9635	139.9671	0.00367	2.029	0.254	
	C	447736	143.4840	143.4867	0.00268	1.485	0.186	

Remarks:

Exclude A

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

Phase 1	Net Wt mg	Total Mass mg	Total Mass mg / mi
	0.00317	1.757	0.220

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	145.16280	145.16177	-0.00103	PASS/FAIL	Inertia: 3625
	2	144.62660	144.62587	-0.00073	PASS	EPA Set Co A: 15.04
					PASS	EPA Set Co B: 0.0262
						EPA Set Co C: 0.01927



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-004

Vehicle ID: S108RXX-0014

Vehicle ID: 3108HXX-0014							
<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>	
Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp	
Pre-test	2/6/13 8:25	1.0011207	022298	71.6	49.2	29.25	NORM @ 02/04/13 07:09:44
Post-test	2/6/13 14:05	1.0011219	022298	71.6	49.2	29.28	NORM @ 02/04/13 07:09:44

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.28			
Avg Cell Temp (degF)	73.94			
Dew Point (degF)	48.71			
Specific Humidity (grains/lbm)	52.12			
NOx Corr Factor	0.9029			
Dilution Factor	12.95			
CFV Vmix (scf @68F)	4823.60			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	8.761			
Sample Volume C (scf @68F)	8.724			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	5.828			
Total Vmix (scf @68F)	4841.09			
Phase Time (sec)	602.20			
Distance (miles)	7.982			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.6			
PSU Dil Air B (degC)	41.0			
PSU Dil Air C (degC)	41.2			
PSU Filter A (degC)	48.0			
PSU Filter B (degC)	46.5			
PSU Filter C (degC)	46.5			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.6			
PSU Dil Flow C (lpm)	29.6			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: "Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]
Cc: CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;"Popa, Edward" [Edward.Popa@audi.com]; Popa, Edward" [Edward.Popa@audi.com]; N=Lynn Sohacki/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Tom Ball/OU=AA/O=USEPA/C=US
Sent: Mon 3/16/2009 9:03:01 PM
Subject: RE: 1.9L Diesels

Hello Norbert,

Can you tell me the status of the 2004 and 2006 models referenced in red below?

Tom

"Krause, Norbert (VWoA)" <Norbert.Krause@vw.com>
Sent by: "Krause, Norbert (VWoA)" <Norbert.Krause@vw.com>
Received Date:
12/22/2008 04:06 PM
Transmission Date:
12/22/2008 04:06:56 PM
To Tom Ball/AA/USEPA/US@EPA
cc Arvon Mitcham/AA/USEPA/US@EPA, "Popa, Edward" <Edward.Popa@audi.com>, Lynn Sohacki/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, "Johnson, Stuart" <Stuart.Johnson@vw.com>, Tom Anderson/AA/USEPA/US@EPA
Subject RE: 1.9L Diesels

Dear Tom:

Thank you for your reply.

You have tested one 2005 car with the old software and with the modified software. The results of the modified software showed that we passed all limits. I assume your decision is that we can go ahead with our activity to do a flash action in the field. As soon as we have done all the paperwork (i.e. dealer and customer letters) we will let you know.

Regarding the 2004 and 2006 model years we need to have a bit more time to finally decide on a similar action. We have to verify the modified software with some vehicles. I expect an outcome later in January 2009.

Thank you for your cooperation.

I wish you and your team a Merry Christmas and a Happy New Year.

Best regards,
Norbert

Norbert Krause
Director, Engineering and Environmental Office (EEO)
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4201
Mobile +1-248-705-5626
FAX +1-248-754-4207
norbert.krause@vw.com

-----Original Message-----

From: Ball.Tom@epamail.epa.gov [mailto:Ball.Tom@epamail.epa.gov]
Sent: Freitag, 14. November 2008 09:56
To: Krause, Norbert (VWoA)
Cc: Mitcham.Arvon@epamail.epa.gov; Popa, Edward;
Sohacki.Lynn@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Johnson,
Stuart; Anderson.Tom@epamail.epa.gov
Subject: RE: 1.9L Diesels

Norbert,

Our position is that if the 2004 and 2006 vehicles are identical calibrations, we don't need any more test data. We would consider them in the same class as far as recall is concerned, and should be included in the recall. However, if there are differences in the calibrations as they relate to this problem, then we would like to see test data.

Tom

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; Kolomitz, Michael" [Michael.Kolomitz@vw.com]
From: "Popa, Edward"
Sent: Fri 10/2/2009 2:07:55 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)
[Q7 4.2Lcanisterloading.ppt](#)
[Fuel Drain Q7-V8FSI.PPT](#)

Hello Lynn,

Please find below and attached the test information and parameters for the EPA In-Use Surveillance Test Program -Eng. Fam. 7ADXT04.2358 and for the vehicle M158RXX-0092X (2007 Audi/Q7):

Lab: NVFEL Ann Arbor,
Michigan
Engine Family: 7ADXT04.2358
Estimated Start Date: Week-ending June 19, 2009
Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: M158/M159 (low-mileage /
high-mileage)

- General Test Group Information:

Engine Fam.: 7ADXT04.2358
Concept: 4.2
Em. Standard: LEV II - BIN 5
Sales Area: 50 States / Canada
Engine HP: 350 hp
Engine Code: BAR
Models in TG: Audi Q7, Touareg
EVAP Fam.: 7ADXR0170358, 7ADXR0230276
EVAP Standard: LEV II - Tier 2
of sold vehicles in TG: 9,727

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me.

Thank you and best regards,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road
Auburn Hills, MI 48326, U.S.A.
Tel. +1 248 754 4211

Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
http://www.vw.com
http://www.audiusa.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 30, 2009 4:03 PM
To: Popa, Edward
Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

M158RXX-0092X (2007 Audi/Q7) - **Ex. 6** 0900 vehicle pick up on 10/8/09 (Thursday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Disconnect to load canister here



Install load hose here



Load hose to station



Overflow open wheel well cover



Disconnect LDP hose



Connect hose for overflow to station for 2g breakthrough



Fuel drain on V8FSI

- ▶ (1) pinch off hose to the high pressure fuel pump (system pressure apx. 6 bar)
- ▶ (2) start and run engine until it stops
- ▶ (3) connect T-piece
- ▶ (4) start and run engine until it stops

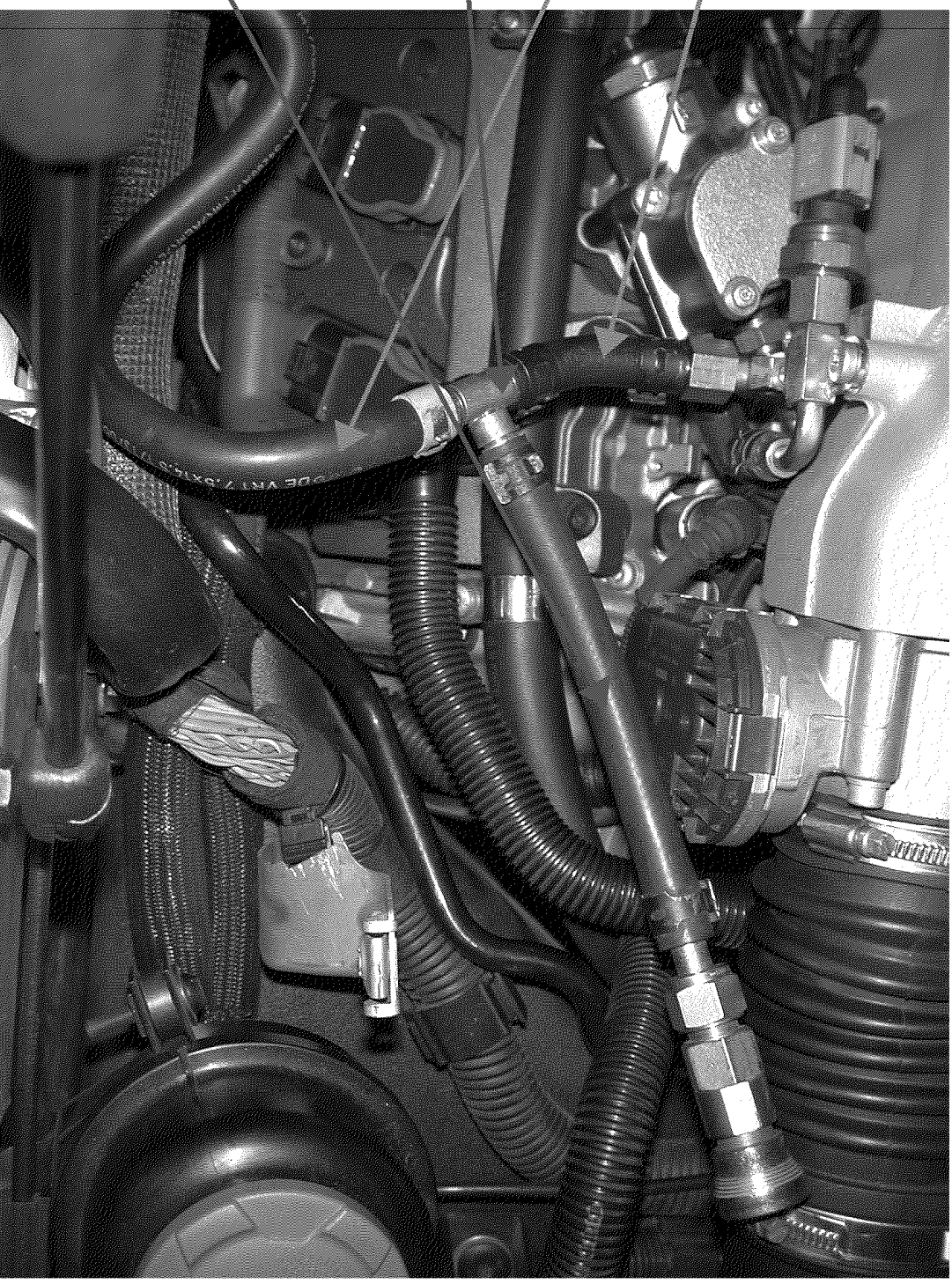
Fuel drain on V8FSI

fuel high pressure pump

hose to high pressure pump



Fuel drain on V8FSI



connection to
high pressure pump

T-piece

Fuel drain hose



To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Bruce Garrison/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com];
Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Popa, Edward"
Sent: Mon 2/8/2010 9:07:07 PM
Subject: In-use vehicles scheduled for Feb. 09 2010
[In-Use Parameters Form.xls](#)
[Q7 4.2Lcanisterloading.ppt](#)
[Fuel Drain Q7-V8FSI.PPT](#)

Hello Lynn,

Please find below and attached the test information and parameters for the EPA In-Use Surveillance Test Program -Eng. Fam. 7ADXT04.2358 and for the vehicle M158RXX-0134X (2007 Audi/Q7):

Lab: NVFEL Ann Arbor,
Michigan
Engine Family: 7ADXT04.2358
Estimated Start Date: Week-ending June 19, 2009
Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: M158/M159 (low-mileage /
high-mileage)

- General Test Group Information:

Engine Fam.: 7ADXT04.2358
Concept: 4.2
Em. Standard: LEV II - BIN 5
Sales Area: 50 States / Canada
Engine HP: 350 hp
Engine Code: BAR
Models in TG: Audi Q7, Touareg
EVAP Fam.: 7ADXR0170358, 7ADXR0230276
EVAP Standard: LEV II - Tier 2
of sold vehicles in TG: 9,727

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me.

Thank you and best regards,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road
Auburn Hills, MI 48326, U.S.A.
Tel. +1 248 754 4211

Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
http://www.vw.com
http://www.audiusa.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Friday, February 05, 2010 3:44 PM
To: Popa, Edward
Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

M158RXX-0134X (2007 Audi/Q7) - Ex. 6 0900 vehicle
pick up on 2/9/10 (Tuesday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed
in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include
explicit directions and, if necessary, pictures for:

*disabling traction control, stability control and any load
leveling the vehicle may have*
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to
our contractor, EG&G, and lab personnel. Paper copies or e-mails sent
directly to EG&G or lab personnel may result in incorrect information
being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Disconnect to load canister here



Install load hose here



Load hose to station



Overflow open wheel well cover



Disconnect LDP hose



Connect hose for overflow to station for 2g breakthrough



Fuel drain on V8FSI

- ▶ (1) pinch off hose to the high pressure fuel pump (system pressure apx. 6 bar)
- ▶ (2) start and run engine until it stops
- ▶ (3) connect T-piece
- ▶ (4) start and run engine until it stops

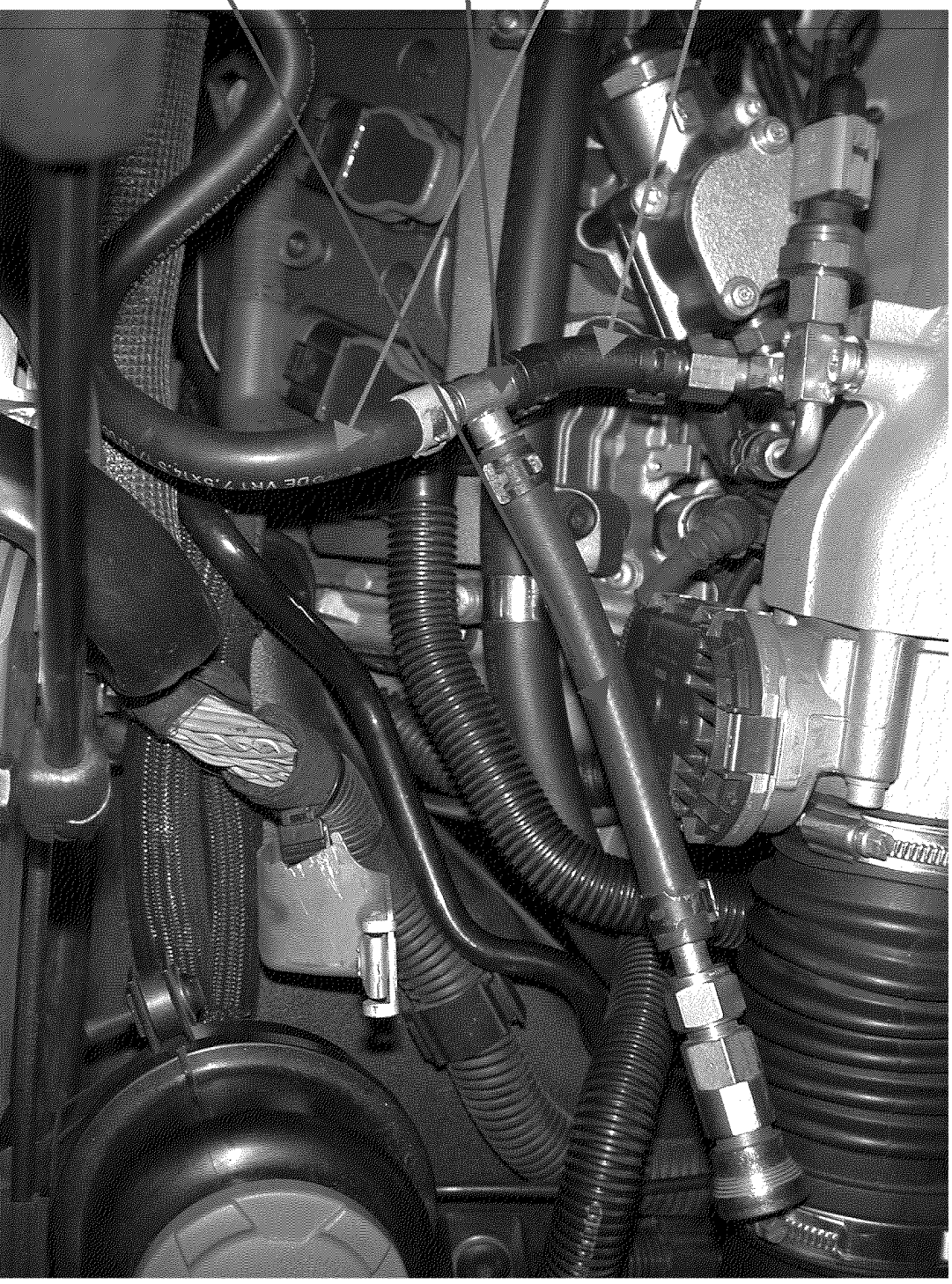
Fuel drain on V8FSI

fuel high pressure pump

hose to high pressure pump



Fuel drain on V8FSI



To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 7/22/2010 8:07:48 PM
Subject: New Manager In-Use Emission Compliance Volkswagen Group of America
sebastian.berenz@vw.com

Hello Mrs. Sohacki,

I only want you know that I am the new manager in-use emission compliance for the Volkswagen Group of America. I'm the successor of Edward Popa and work deal for the next few years in Rochester Hills.

So if you have any issues for me, please let me know.

If there are any questions occurring, please do not hesitate to contact me.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 7/22/2010 8:12:34 PM
Subject: Re: New Manager In-Use Emission Compliance Volkswagen Group of America
sebastian.berenz@vw.com

Hi, Sebastian.

Thanks for the introduction. I look forward to working with you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 07/22/2010 04:07 PM
Subject: New Manager In-Use Emission Compliance Volkswagen Group of America

Hello Mrs. Sohacki,

I only want you know that I am the new manager in-use emission compliance for the Volkswagen Group of America. I'm the successor of Edward Popa and work deal for the next few years in Rochester Hills. So if you have any issues for me, please let me know.

If there are any questions occurring, please do not hesitate to contact me.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: mike.hennard@VW.com[]
Cc: CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 8/4/2010 8:18:14 PM
Subject: Updated spreadsheet for M158
[M 158.xls](#)

Hi, Mike.

I've attached the updated spreadsheet for this class. As I suspected, the odometer readings were switched between M158-0024 and M158-0034. Also, I checked again and no codes were found on any of the vehicles tested at EPA.

Please forward this to the others that were at the meeting. When you have a chance, please send us a copy of the presentation.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Hennard, Mike"
Sent: Thur 8/5/2010 1:33:00 PM
Subject: VW Presentations - July 29
[Meeting EPA Surveillance 8AD XV03 1374 work to EPA.pdf](#)
[Surveillance 7ADXT04.2358 epa.pdf](#)
mike.hennard@vw.com

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America

3800 Hamlin Road

Auburn Hills, MI 48326

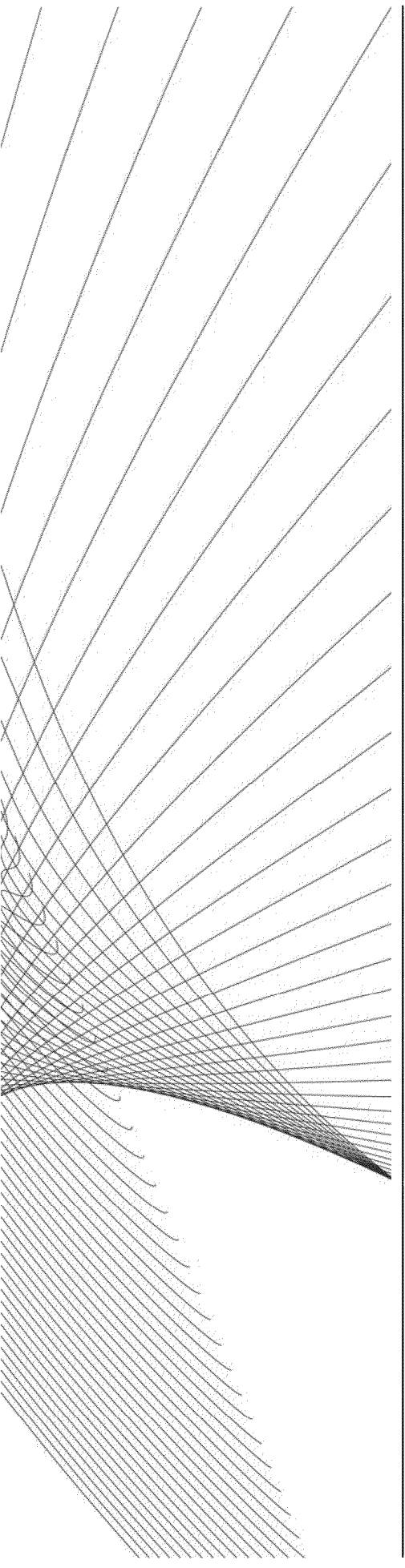
Telephone Number: 248 754 4202

Fax: 248 754 4207

mike.hennard@vw.com

VOLKSWAGEN

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EPA In-Use Surveillance Test Program

(Engine Family 8AD XV03.1374)

Topics

1. IUVP – Test Results (Engine Family 8AD XV03.1374)
2. EPA In-Use Surveillance Test Class Description
3. EPA Test Results / VWGoA Test Results
 - 1st Vehicle (VIN.....215)
 - 2nd Vehicle (VIN.....351)
 - 3rd Vehicle (VIN.....944)
 - 4th Vehicle (VIN.....654)
 - 5th Vehicle (VIN.....607)
4. Testing Summary
5. Conclusion
6. Proposal – Next Steps

1. IUVP-Test Results

Engine Family 8ADXV03.1374

- 2 Vehicles tested / reported in earlier IUVP program (see first two lines)
- MY 2008 low mileage

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
10300	AUDI / A6	2008	Ex. 6	IUVP	2009-06-LM	0.0702	0.9189	0.006	21.41	93.6%	27.0%	12.0%
22000	AUDI / A6	2008	Ex. 6	IUVP	2009-06-LM	0.0634	0.4494	0.0256	23.94	54.5%	13.2%	51.2%

2. In-Use Surveillance Test Class Description **(Engine Family 8ADXV03.1374)**

- Program began February 2010
- Engine Family: 8ADXV03.1374
- Models: AUDI A4 and AUDI A6
- US Population: 17,017
- EPA has tested 5 vehicles
 - one car passed

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3. EPA Test Results / VWGoA Test Results

1st vehicle (VIN.....215)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
32808	AUDI A6	2008	Ex. 6	EPA	FTP #1	0.0543	0.28789	0.06979	22.93	72.4%	8.5%	139.6%

- car failed test at EPA
- contacted customer - shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
34292	AUDI A6	2008	Ex. 6	VW	FTP #1 VW Lab	0.0758	0.3128	0.0276	23.74	101.1%	9.2%	55.2%
34311	AUDI A6	2008		VW	FTP #2 VW Lab	0.0511	0.2654	0.0233	23.39	68.1%	7.8%	46.6%
34329	AUDI A6	2008		VW	FTP #3 VW Lab	0.0552	0.255	0.026	23.89	73.6%	7.5%	52.0%

- first test in VW laboratory marginally failed
- second test in VW laboratory passed
- third test in VW laboratory passed too

3. EPA Test Results / VMGoA Test Results

2nd vehicle (VIN.....351)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
26602	AUDI A6	2008	Ex. 6	EPA	FTP #2	0.0721	0.66211	0.01228	22.15	96.1%	19.5%	24.6%

- car passed test at EPA

VOLKSWAGEN
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3. EPA Test Results / VWGoA Test Results

3rd vehicle (VIN.....944)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
13402	AUDI A6	2008	EX. 6	VW	FTP #1 VW Lab	0.0843	0.78665	0.01491	21.08	112.4%	23.1%	29.8%

- car failed test at EPA
- contacted customer - shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
13798	AUDI A6	2008	EX. 6	VW	FTP #1 VW Lab	0.1114	1.0946	0.0023	19.99	148.5%	32.2%	4.6%
13816	AUDI A6	2008		VW	FTP #2 VW Lab	0.0982	0.8886	0.0019	21.22	130.9%	26.1%	3.8%
13850	AUDI A6	2008		VW	FTP #3 VW Lab	0.0622	0.7552	0.0023	21.37	82.9%	22.2%	4.6%

- first test in VW laboratory failed as received
- second test in VW laboratory failed
- third test passed (with US06 pre-conditioning)

VOLKSWAGEN
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3. EPA Test Results / VMGoA Test Results

4th vehicle (VIN.....654)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	PM 0.01 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]	PM [g/mi]
27415	AUDI A6	2008	Ex. 6	EPA	FTP #4	0.12319	0.94658	0.01485	0.01051	21.51	170.8%	27.8%	29.7%	105.1%

- car failed test at EPA
- contacted customer - shipped car to VMGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	PM 0.01 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]	PM [g/mi]
28573	AUDI A6	2008	Ex. 6	VW	FTP #1 VW Lab	0.0703	0.6126	0.0132	0.0056	21.92	93.7%	18.0%	26.4%	56.0%

- first test in VW laboratory passed

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3. EPA – Test Results / VWGoA Test Results

5th vehicle (VIN.....607)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	PM 0.01 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]	PM [%g/mi]
18914	AUDI A4	2008	Ex. 6	EPA	FTP #5	0.11077	1.99387	0.02676	0.02185	17.26	163.6%	58.6%	53.6%	218.5%

- car failed test at EPA
- contacted customer - shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	PM 0.01 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]	PM [%g/mi]
20920	AUDI A4	2008	Ex. 6	VW	FTP #1 VW Lab	0.0498	0.5918	0.005	0.006	21.90	66.4%	17.4%	10.0%	70.0%

- first test in VW laboratory passed
 - VW noticed a questionable variance in EPA test results for this vehicle
 - fuel economy and emission data not consistent with other vehicles tested
 - fuel economy numbers lower and PM much higher than re-test at VW laboratory

4. Testing Summary

VW re-tested 4 cars at VW Westlake lab that failed EPA Surveillance program

- 3 passed as received at VW lab
 - 1 vehicle that passed at VW lab showed inconsistent data at EPA
 - Low fuel economy / excessive PM
- 1 required additional US06 preconditioning to pass at VW lab
- 1 vehicle passed at EPA— No re-test at VW

5. Conclusion

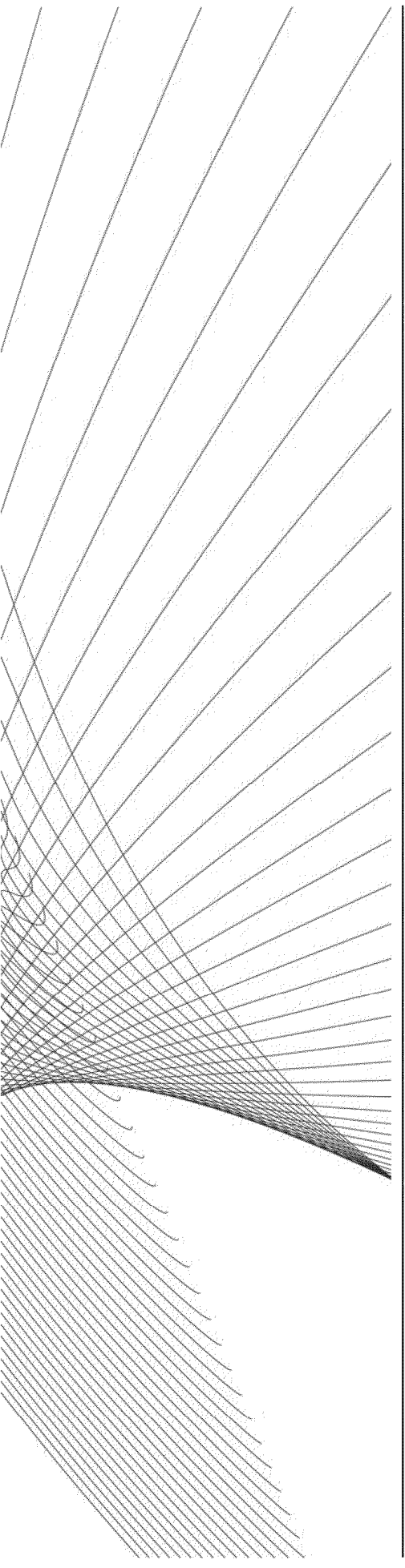
- It is VMGoA opinion that this concept is acceptable (4 of 5 vehicles passed) and no additional testing is needed within EPA's surveillance program.
- In extreme cases additional US06 pre conditioning may improve test results for the following reasons:
 - Variances of customer fuel versus test fuel (requires longer fuel adaptation)
 - Possible poor quality (as received) fuel (requires longer fuel adaptation)
 - Possible catalyst poisoning

6. Possible Next Steps

1. Volkswagen offers to perform additional testing of customer cars
2. Volkswagen offers to analyze current fuel samples from customer cars
3. VW will provide additional test data to EPA when available

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EPA In-Use Surveillance Test Program

(Engine Family 7ADXT04.2358)

Topics

1. IUVP – Test Results (Engine Family 7ADXT04.2358)
2. EPA In-Use Surveillance Test Class Description
3. EPA - Testing
 - 1st Vehicle
 - 2nd Vehicle
 - 3rd Vehicle
4. Conclusion

IUVP-Testing/Reporting (Engine Family 7ADXT04.2358)

- 2 Vehicles have been tested/reported in IUVP – (see first two lines)
- In agreement with EPA and ARB, 3 additional vehicles tested/reported– IUCP (see last three lines)

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
11,230	AUDI / SUQ / Q7	2007	Ex. 6	IUVP	2007-01-LM	0.0311	0.5480	0.0299	15.4551	41.4%	16.1%	59.9%
22,966	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.1653	0.4207	0.0225	15.9554	220.5%	12.4%	45.0%
19,562	AUDI / SUQ / Q7	2007		IUVP	2007-01-LM	0.0445	0.6816	0.0151	16.5053	59.3%	20.0%	30.1%
34,695	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.0560	0.6635	0.0209	16.0402	74.7%	19.5%	41.9%
25,398	AUDI / SUQ / Q7	2007		IUVP	2007-03-LM	0.0645	0.8204	0.0218	16.4598	86.0%	24.1%	43.6%

In-Use Surveillance Test Class **(Engine Family 7ADXT04.2358)**

- Program began June 2009
- Engine Family: 7ADXT04.2358
- Models: AUDI Q7 and VW-Touareg
- US Population: 9,727
- EPA tested 3 vehicles in this Program

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1st Vehicle - Results (Engine Family 7ADXT04.2358)

- Results for 1st Vehicle procured and tested by EPA

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gall]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
43,328	AUDI / SUQ / Q7	2007	EX. 6	EPA	FTP-#1	0.3082	2.1007	0.0255	14.3500	410.9%	61.8%	51.1%
43,402	AUDI / SUQ / Q7	2007		EPA	FTP-#2	0.1109	0.6380	0.0193	13.4000	147.9%	18.8%	38.6%

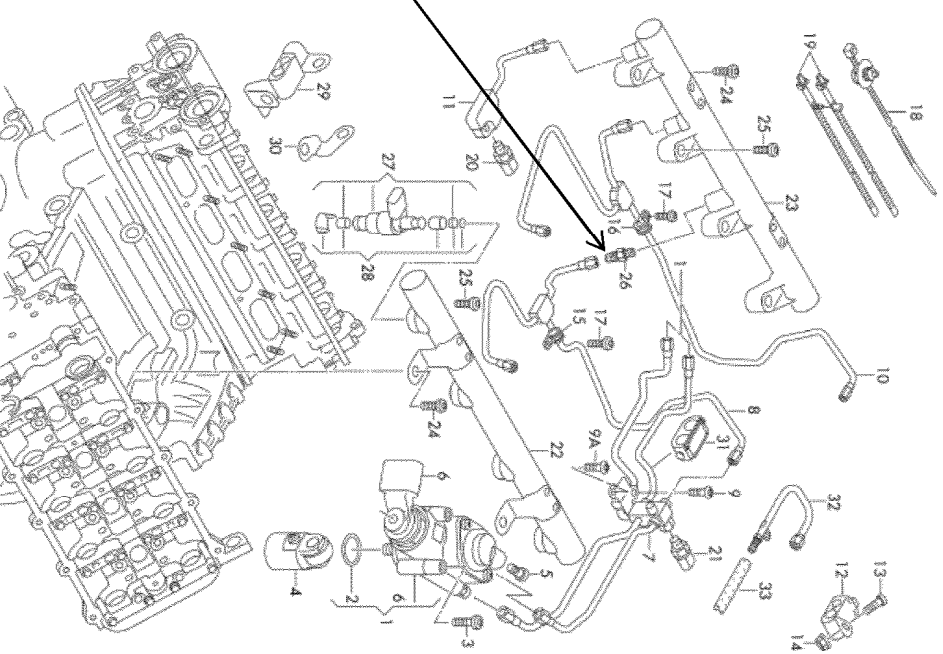
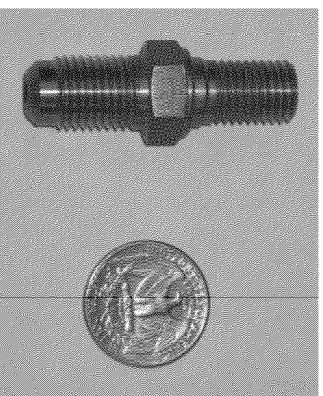
- 1st Vehicle procured and tested by EPA was also IUVP vehicle that failed

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gall]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
11,230	AUDI / SUQ / Q7	2007	EX. 6	IUVP	2007-01-LM	0.0311	0.5480	0.0299	15.4551	41.4%	16.1%	59.9%
22,966	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.1653	0.4207	0.0225	15.9554	220.5%	12.4%	45.0%
19,562	AUDI / SUQ / Q7	2007		IUVP	2007-01-LM	0.0445	0.6816	0.0151	16.5053	59.3%	20.0%	30.1%
34,695	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.0560	0.6635	0.0209	16.0402	74.7%	19.5%	41.9%
25,398	AUDI / SUQ / Q7	2007		IUVP	2007-03-LM	0.0645	0.8204	0.0218	16.4598	86.0%	24.1%	43.6%

1st Vehicle – Analysis in Westlake, CA (Engine Family 7ADXT04.2358)

- Vehicle tested and analyzed in Westlake
- ➔ Emission results above NMOG-Standard
- Analysis show:
 - catalyst works within specs
 - rapid pressure loss in fuel rail
- ➔ Fuel pressure limiters have been changed
- Vehicle tested with new fuel pressure limiters
- ➔ Emission results below standards

Fuel Pressure Limiter



1st Vehicle - Results (Engine Family 7ADXT04.2358)

- 1st Vehicle procured and tested by EPA
(first two lines show EPA Results)
- Analyzed and tested in Westlake, CA
(last two lines show Results in Westlake)

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
43,328	AUDI / SUQ / Q7	2007	EX. 6	EPA	FTP #1	0.3082	2.1007	0.0255	14.3500	410.9%	61.8%	51.1%
43,402	AUDI / SUQ / Q7	2007		EPA	FTP #2	0.1109	0.6380	0.0193	13.4000	147.9%	18.8%	38.6%
44,051	AUDI / SUQ / Q7	2007		WL,CA	FTP #1-WL	0.1231	0.4497	0.0226	14.6768	164.2%	13.2%	45.2%
44,071	AUDI / SUQ / Q7	2007		WL,CA	FTP #2-WL	0.0381	0.3201	0.0258	14.7524	50.8%	9.4%	51.7%

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2nd and 3rd Vehicle - Results (Engine Family 7ADXT04.2358)

- Results for 2nd Vehicle procured and tested by EPA

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOX 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
26,354	AUDI / SUQ / Q7	2007	EX. 6	EPA	FTP-#1	0.0882	0.5607	0.0282	14.3100	117.6%	16.5%	56.4%
26,447	AUDI / SUQ / Q7	2007		EPA	FTP-#2	0.0749	0.5230	0.0292	14.1900	99.9%	15.4%	58.4%

- Results for 3rd Vehicle procured and tested by EPA

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOX 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
22,810	AUDI / SUQ / Q7	2007	EX. 6	EPA	FTP-#1	0.0487	2.0133	0.0176	14.2800	65.0%	59.2%	35.2%

Conclusion

(Engine Family 7ADXT04.2358)

- In-Use Testing:
 - 4 out of 5 vehicle passed the emission test – No additional testing needed
- EPA In-Use Surveillance Test Class:
 - 3 vehicles have been tested
 - 1st vehicle failed – same vehicle failed in IUVP as well
 - 1st vehicle passed after repair
 - 2nd vehicle passed
 - 3rd vehicle passed
- ➔ 1 defect vehicle failed (only 27 warranty claims – limiter valve)
2 vehicles passed

To: "Hennard, Mike" [mike.hennard@vw.com]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 8/5/2010 1:58:39 PM
Subject: Re: VW Presentations - July 29
[N116.xls](#)
mike.hennard@vw.com

Thanks, Mike.

Here is the summary sheet for the 3.1L vehicles. I corrected the odometer reading for N116-0051.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart" <Stuart.Johnson@vw.com>
Date: 08/05/2010 09:33 AM
Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard
Manager - Emissions Compliance EEO

Volkswagen Group of America
3800 Hamlin Road
Auburn Hills, MI 48326

Telephone Number: 248 754 4202
Fax: 248 754 4207
mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8ADXV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]; N=Mike
Haley/OU=DC/O=USEPA/C=US@EPA[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 8/5/2010 8:16:08 PM
Subject: Notification of a new in-use confirmatory test class
[NOTIF-N-001c-Audi.doc.pdf](#)

Hi.

Attached is a letter that was sent to your company announcing the selection of an EPA in-use confirmatory class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

August 5, 2010

OFFICE OF
AIR AND RADIATION

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Road
Auburn Hills, Michigan 48326

Dear Mr. Reineke:

The Environmental Protection Agency will test a 2008 model-year Audi test-group in our confirmatory test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan.

After sample vehicles have been identified and approximately a week before they will be brought in for maintenance, I will notify you via e-mail of the vehicle identification number. Please complete and return the parameters form that will be attached to the e-mail.

Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. We will measure the particulate level of each vehicle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lynn Sohacki".

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	8ADXV03.1374
<u>Estimated Start Date</u>	Week-ending October 8, 2010
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214- 4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	N001c/N002c (low-mileage / high-mileage)

To: mike.hennard@VW.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 8/6/2010 1:11:56 PM
Subject: Fw: Notification of a new in-use confirmatory test class
[NOTIF-N-001c-Audi.doc.pdf](#)

Hi, Mike.

I intended to send this to you as well as Sebastian.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/06/2010 09:11 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>, Mike Haley/DC/USEPA/US@EPA
Date: 08/05/2010 04:16 PM
Subject: Notification of a new in-use confirmatory test class

Hi.

Attached is a letter that was sent to your company announcing the selection of an EPA in-use confirmatory class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

August 5, 2010

OFFICE OF
AIR AND RADIATION

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Road
Auburn Hills, Michigan 48326

Dear Mr. Reineke:

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Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. We will measure the particulate level of each vehicle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lynn Sohacki".

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

Lab

NVFEL
Ann Arbor, Michigan

Test Group

8ADXV03.1374

Estimated Start Date

Week-ending October 8, 2010

Recall/Testing Representative

Lynn Sohacki

Telephone Number

(734) 214- 4851

E-mail address

Sohacki.lynn@epa.gov

Class Numbers

N001c/N002c (low-mileage / high-mileage)

To: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 8/11/2010 1:17:27 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - Ex. 6 0900 vehicle pick up on 8/17/10
(Tuesday)

N148RXX-0184 (2008 VW/Passat) - Ex. 6 0900 vehicle pick up on 8/19/10
(Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

- vehicle target road-load coefficients
- fuel tank capacity
- 40% tank capacity
- tire pressure
- applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Hennard, Mike" [mike.hennard@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 8/12/2010 8:27:01 PM
Subject: Re: VW Presentations - July 29
mike.hennard@vw.com

Hi, Mike.

We are wondering if you have answers to the other questions that we posed to VW during our meeting. Specifically, you were going to investigate whether the MIL was on or if any fault codes were set when VW recruited vehicle with VIN ending 1590 after it failed at EPA.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart" <Stuart.Johnson@vw.com>
Date: 08/05/2010 09:33 AM
Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard
Manager - Emissions Compliance EEO

Volkswagen Group of America
3800 Hamlin Road
Auburn Hills, MI 48326

Telephone Number: 248 754 4202
Fax: 248 754 4207
mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8AD XV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: christoph.kohnen@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/17/2010 1:33:42 PM
Subject: Fw: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 08/11/2010 09:17 AM
Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/17/10
(Tuesday)

N148RXX-0184 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/19/10
(Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures

ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Kohnen, Christoph (VWGoA)"
Sent: Tue 8/17/2010 8:33:47 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

I am actually in Germany. Stuart Johnson, Manager at EEO is informed to help you. Please send him a copy of any mail you send to me.

Thank you!

Kind regards

Christoph

Dr. Christoph Kohnen

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4201
Cell: (248) 408-7548
FAX: (248) 754-4207
E-Mail: christoph.kohnen@vw.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, August 17, 2010 9:34 AM
To: Kohnen, Christoph (VWGoA)
Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 08/11/2010 09:17 AM

Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/17/10 (Tuesday)

N148RXX-0184 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.

Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: "Johnson, Stuart" [Stuart.Johnson@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/17/2010 8:54:55 PM
Subject: Fw: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:54 PM -----

From: Lynn Sohacki/AA/USEPA/US
To: christoph.kohnen@vw.com
Date: 08/17/2010 09:33 AM
Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 08/11/2010 09:17 AM
Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) { Ex. 6 }, 0900 vehicle pick up on 8/17/10
(Tuesday)

N148RXX-0184 (2008 VW/Passat) { Ex. 6 }, 0900 vehicle pick up on 8/19/10
(Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Johnson, Stuart" [Stuart.Johnson@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/17/2010 8:57:10 PM
Subject: Resend Fw: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Stuart.

Sorry the last e-mail got sent before I had a chance to write something.

Christoph said you would be able to get parameters for me. The needed information is on the form below. Please let me know if you have any questions.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:55 PM -----

From: Lynn Sohacki/AA/USEPA/US
To: christoph.kohnen@vw.com
Date: 08/17/2010 09:33 AM
Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 08/11/2010 09:17 AM
Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/17/10 (Tuesday)
N148RXX-0184 (2008 VW/Passat) - **Ex. 6** , 0900 vehicle pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Johnson, Stuart"
Sent: Wed 8/18/2010 11:49:01 AM
Subject: RE: Resend Fw: In-use vehicles scheduled for next week

Hello Lynn,

Thanks for the email. I think you saw a note from Christoph referring you to me. I meant to tell you in the future you can send all information regarding testing to me, Sebastian Berenz and Dennis Reineke.

Sebastian works in my department and has taken over the IUVP job from Edy Popa for the next three years. Edy has returned to Germany. Sebastian's email is sebastian.berenz@vw.com

Dennis is a longtime member of our group and has prior in-use and laboratory experience, so he can act as a back-up if Sebastian or I am not available. Over the past few years your surveillance letters have come to Dennis. We left it that way because we thought for continuity it was better to have a US contact. Dennis' email is dennis.reineke@vw.com

Sebastian was out at your laboratory yesterday inspecting your first Passat and gave your staff the testing parameters. I saw your request to send the information to you electronically and we will do that. We are still waiting for a canister procedure from Germany and will send it as soon as it is received. We expect it this week.

Best Regards,

Stuart

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, August 17, 2010 4:57 PM

To: Johnson, Stuart

Subject: Resend Fw: In-use vehicles scheduled for next week

Hi, Stuart.

Sorry the last e-mail got sent before I had a chance to write something.

Christoph said you would be able to get parameters for me. The needed information is on the form below. Please let me know if you have any questions.

Thanks.

Lynn Sohacki
Environmental Protection Agency

734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:55 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: christoph.kohnen@vw.com

Date: 08/17/2010 09:33 AM

Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 08/11/2010 09:17 AM

Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6**, 0900 vehicle
pick up on 8/17/10 (Tuesday)

N148RXX-0184 (2008 VW/Passat) - **Ex. 6** 0900 vehicle
pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for
relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include
explicit directions and, if necessary, pictures for:

*disabling traction control, stability control and any load
leveling the vehicle may have*
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to
our contractor, EG&G, and lab personnel. Paper copies or e-mails sent
directly to EG&G or lab personnel may result in incorrect information
being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Berenz, Sebastian"
Sent: Wed 8/18/2010 3:16:11 PM
Subject: In-use vehicles scheduled VW
[Fuel Drain Instructions.pdf](#)
[In-Use Parameters Form N148RXX-0092](#)

Ex. 6

[xls](#)
[In-Use Parameters Form N148RXX-0184](#)

Ex. 6

[xls](#)
sebastian.berenz@vw.com

Hello Mrs. Sohacki,

Attached you will find the required information for both cars you already have received for the surveillance program of our 8AD XV02.0366 test group.

Please let me know if you have any questions.

Sebastian Berenz

Manager In-Use Emission Compliance

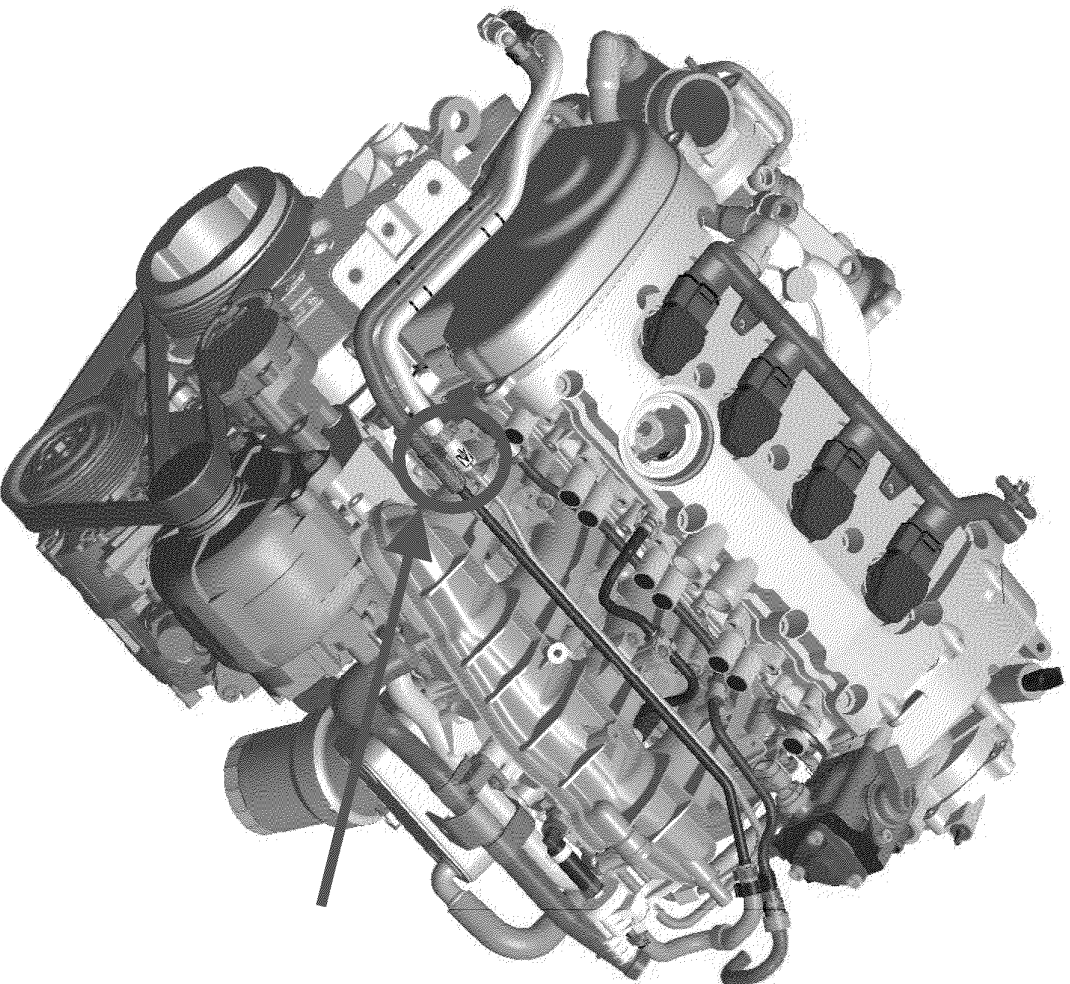
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

Fuel Drain

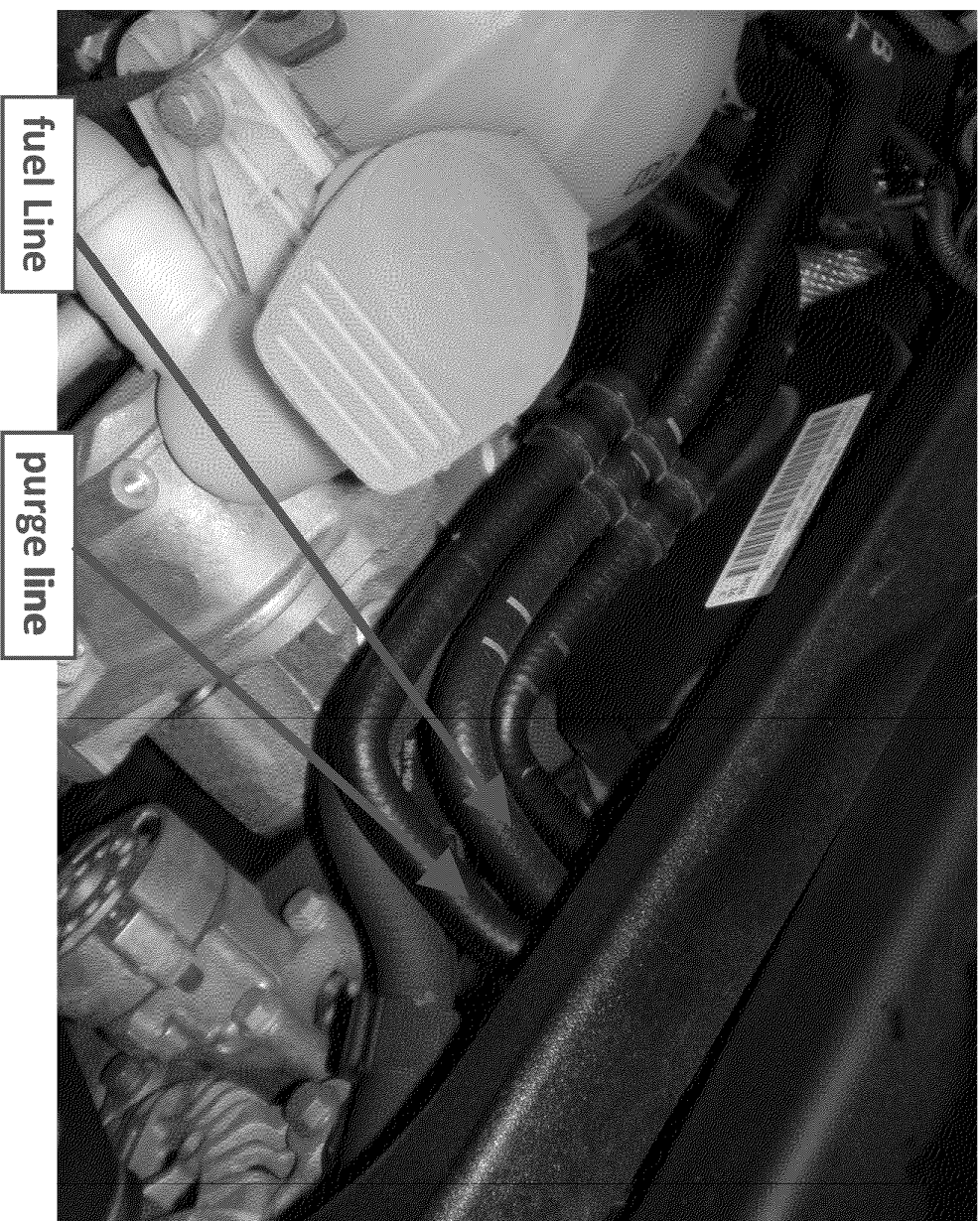


1. Remove Engine Cover

Access to Fuel Line and
Purge Line Connections

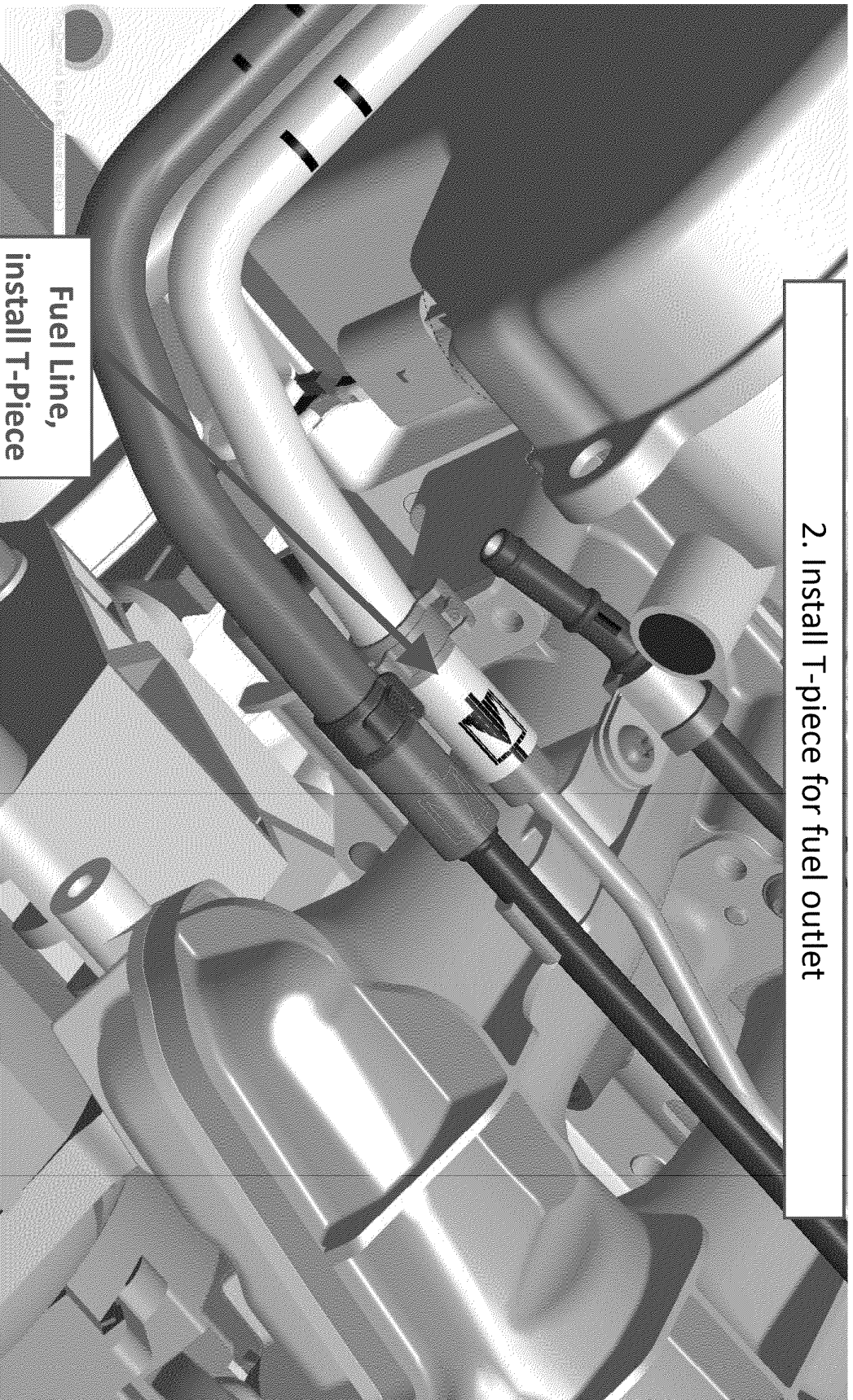
Fuel Drain

overview



Fuel Drain

2. Install T-piece for fuel outlet

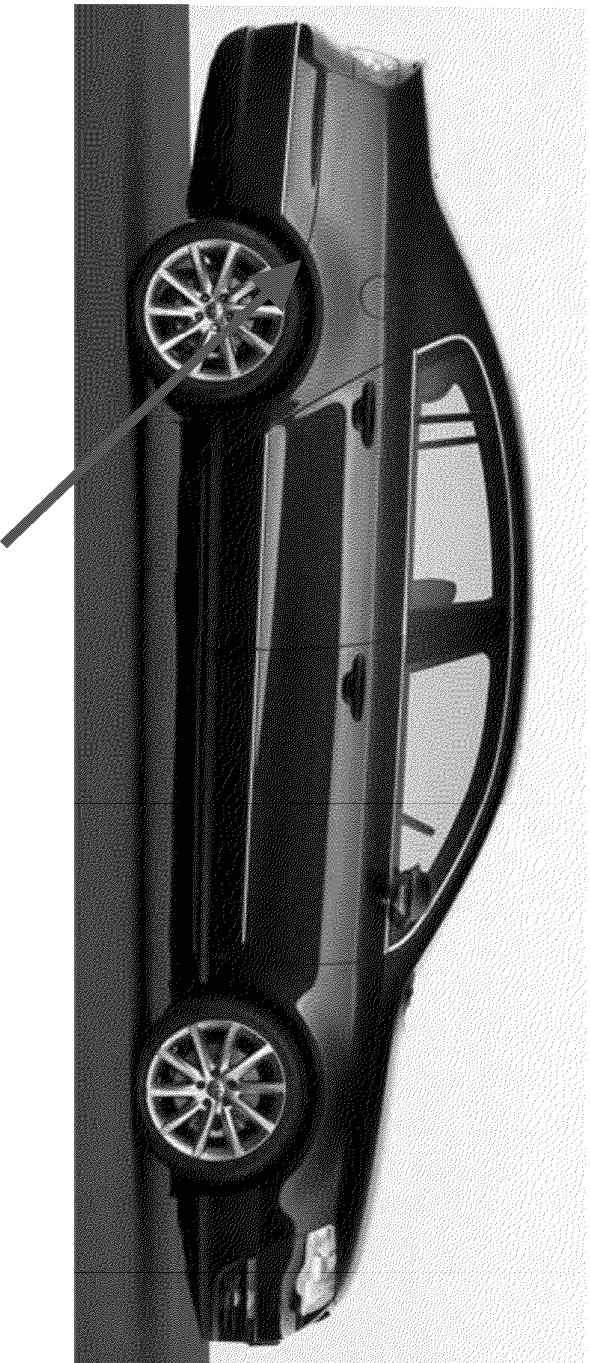


Fuel Drain, Canister Load Port

1. Remove Engine Cover
2. Install T-piece in fuel line and prepare to drain system
3. Activate 12v fuel pump until no more fuel flows.
(Should flow with key in on position without engine running. If not, use necessary means to supply fuel pump with 12v)

Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)

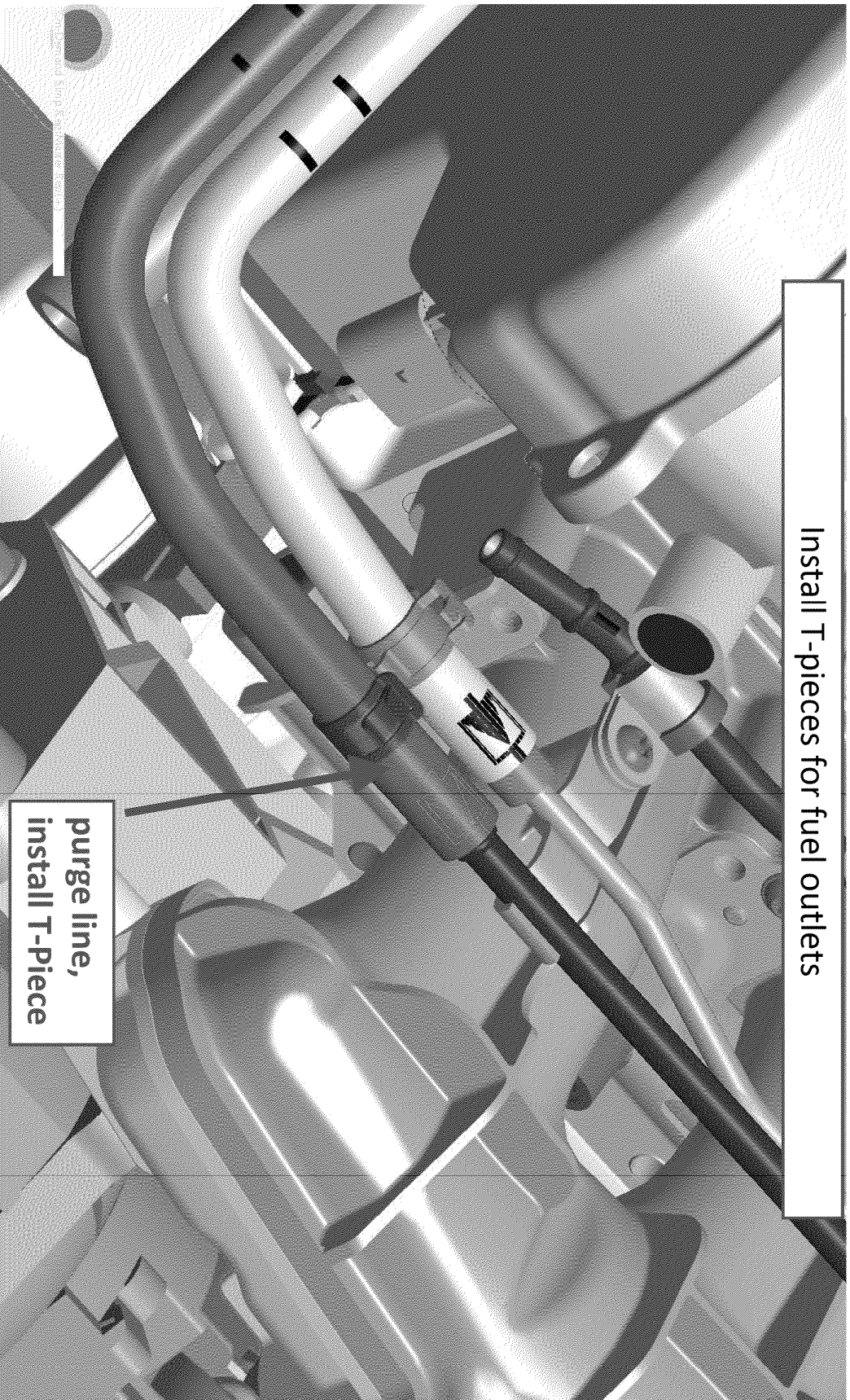


Carbon canister is placed in the wheel housing behind the wheel housing liner on the right side of the vehicle.

1. Remove wheel on the right in the back of the vehicle
2. Remove the wheel housing liner
3. Now you have access to the carbon canister

Canister Load Port

Install T-pieces for fuel outlets

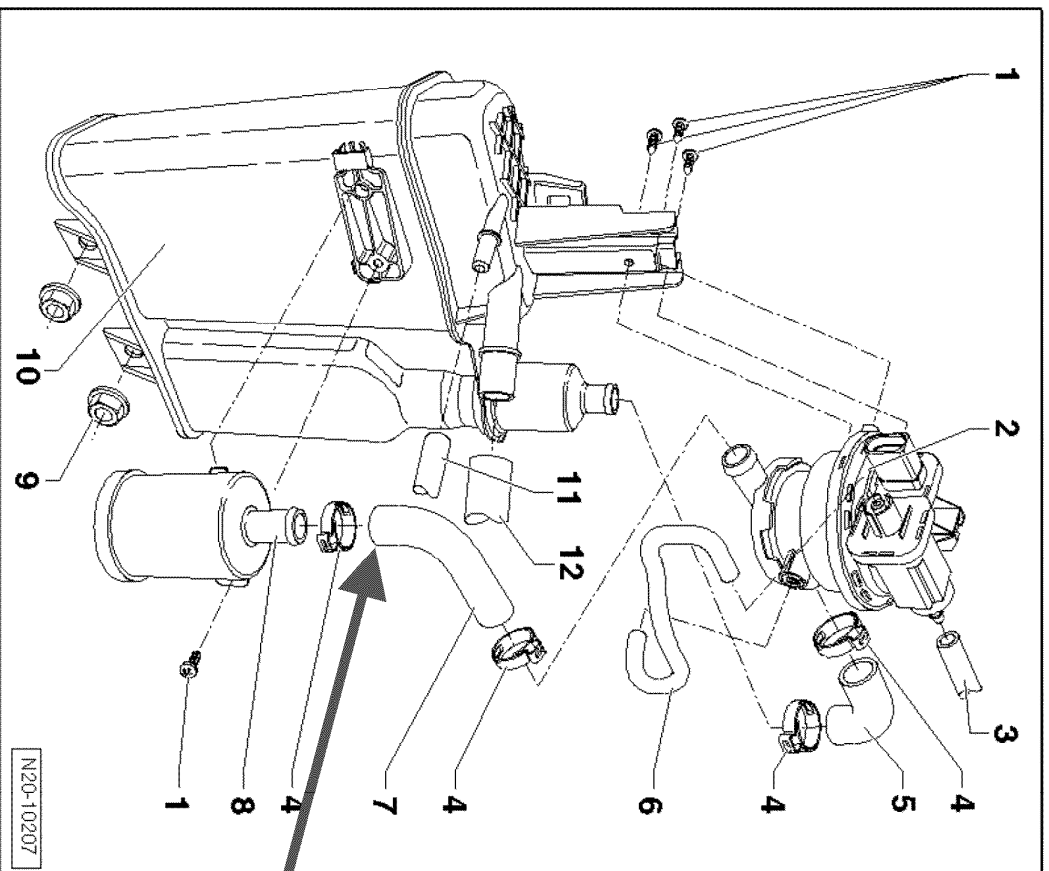
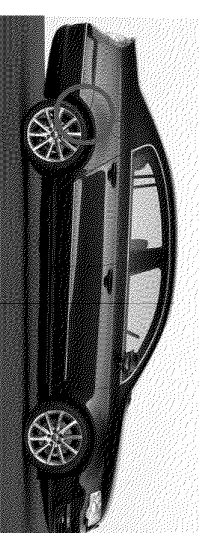


purge line,
install T-Piece

In-Process Step 1 (Pre-Install Route)

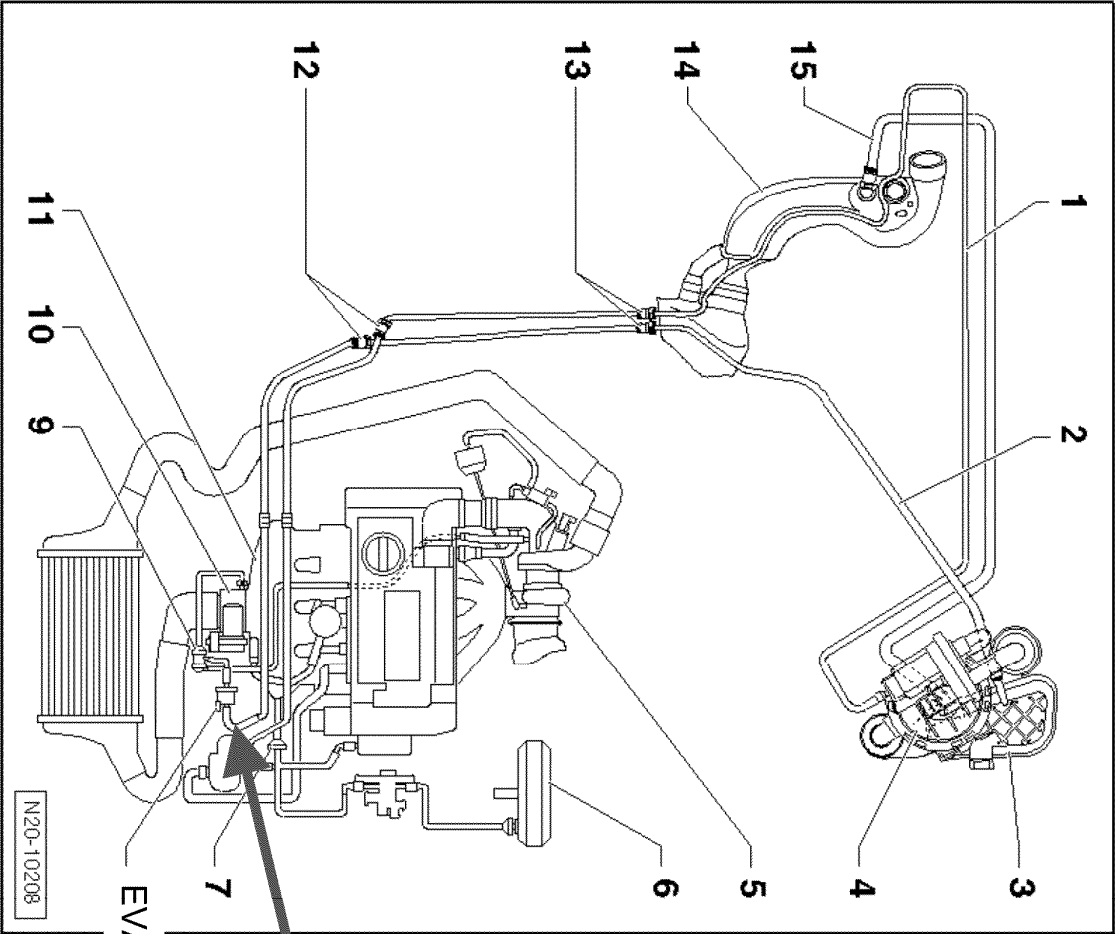
Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)



Ventilation Port,
install Vent Line here

Structure of the Evap. System for Canister Loading/Purging



Front of the vehicle:
install Vent Line here

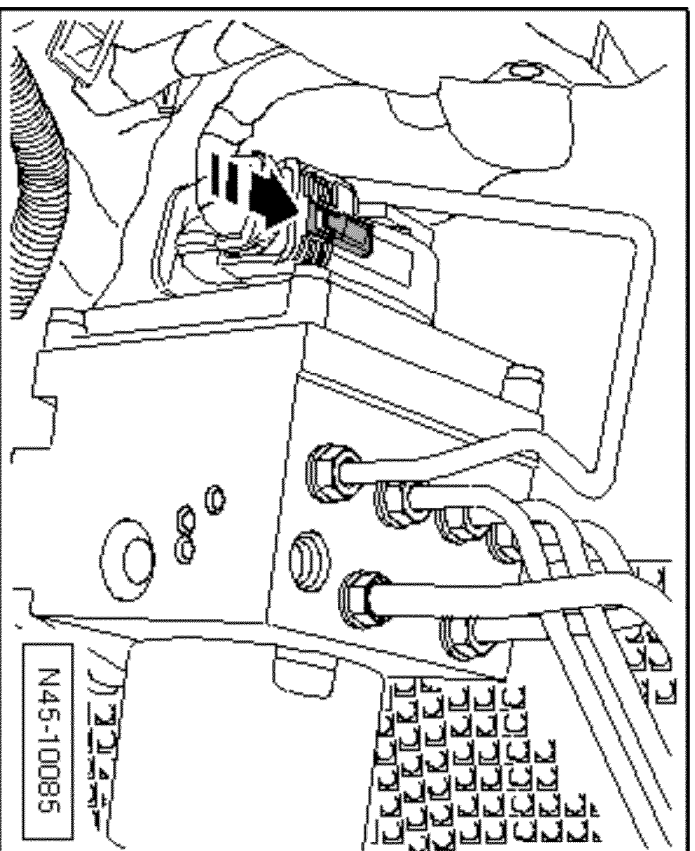
EVAP Purge Valve

N20-10208

ABS disabling process

ESP SYSTEM DEACTIVATION:

- Remove the Plug on the ABS control unit (Engine Compartment)



To: "Johnson, Stuart" [Stuart.Johnson@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 8/18/2010 8:15:20 PM
Subject: RE: Resend Fw: In-use vehicles scheduled for next week

Hi, Stuart.

Thank you for the e-mail. I'll include you, Sebastian and Dennis in my testing information. I'll look forward to receiving the canister loading procedure.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Johnson, Stuart" <Stuart.Johnson@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 08/18/2010 07:49 AM
Subject: RE: Resend Fw: In-use vehicles scheduled for next week

Hello Lynn,

Thanks for the email. I think you saw a note from Christoph referring you to me. I meant to tell you in the future you can send all information regarding testing to me, Sebastian Berenz and Dennis Reineke.

Sebastian works in my department and has taken over the IUVP job from Edy Popa for the next three years. Edy has returned to Germany. Sebastian's email is sebastian.berenz@vw.com

Dennis is a longtime member of our group and has prior in-use and laboratory experience, so he can act as a back-up if Sebastian or I am not available. Over the past few years your surveillance letters have come to Dennis. We left it that way because we thought for continuity it was better to have a US contact. Dennis' email is dennis.reineke@vw.com

Sebastian was out at your laboratory yesterday inspecting your first Passat and gave your staff the testing parameters. I saw your request to send the information to you electronically and we will do that. We are still waiting for a canister procedure from Germany and will send it as soon as it is received. We expect it this week.

Best Regards,

Stuart

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, August 17, 2010 4:57 PM

To: Johnson, Stuart

Subject: Resend Fw: In-use vehicles scheduled for next week

Hi, Stuart.

Sorry the last e-mail got sent before I had a chance to write something.

Christoph said you would be able to get parameters for me. The needed information is on the form below. Please let me know if you have any questions.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:55 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: christoph.kohnen@vw.com

Date: 08/17/2010 09:33 AM

Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get

them to me when you can.

Thank you.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 08/11/2010 09:17 AM

Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - Ex. 6 0900 vehicle
pick up on 8/17/10 (Tuesday)

N148RXX-0184 (2008 VW/Passat) - Ex. 6 0900 vehicle
pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for
relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: Stuart.Johnson@vw.com;sebastian.berenz@vw.com;dennis.reineke@vw.com[];
ebastian.berenz@vw.com;dennis.reineke@vw.com[]; ennis.reineke@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 8/19/2010 5:24:00 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hello.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0299 (2008 VW/Passat) - Ex. 6, 0930 vehicle pick up on 8/24/10
(Tuesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

- vehicle target road-load coefficients
- fuel tank capacity
- 40% tank capacity
- tire pressure
- applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Berenz, Sebastian"
Sent: Fri 8/20/2010 12:23:37 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N148RXX-0299 **Ex. 6** .xlsx
Fuel Drain Instructions.pdf

Hello Mrs. Sohacki,
Hello Bernd,

Attached you will find the required information for third car.

The instructions are the same like for the other two cars.

If you have any questions, please do not hesitate to call me.
We will be in Ann Arbor on Tuesday to check the car.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, August 19, 2010 1:24 PM
To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis
Subject: In-use vehicles scheduled for next week

Hello.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0299 (2008 VW/Passat) - **Ex. 6** 0930 vehicle pick up on 8/24/10
(Tuesday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

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preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

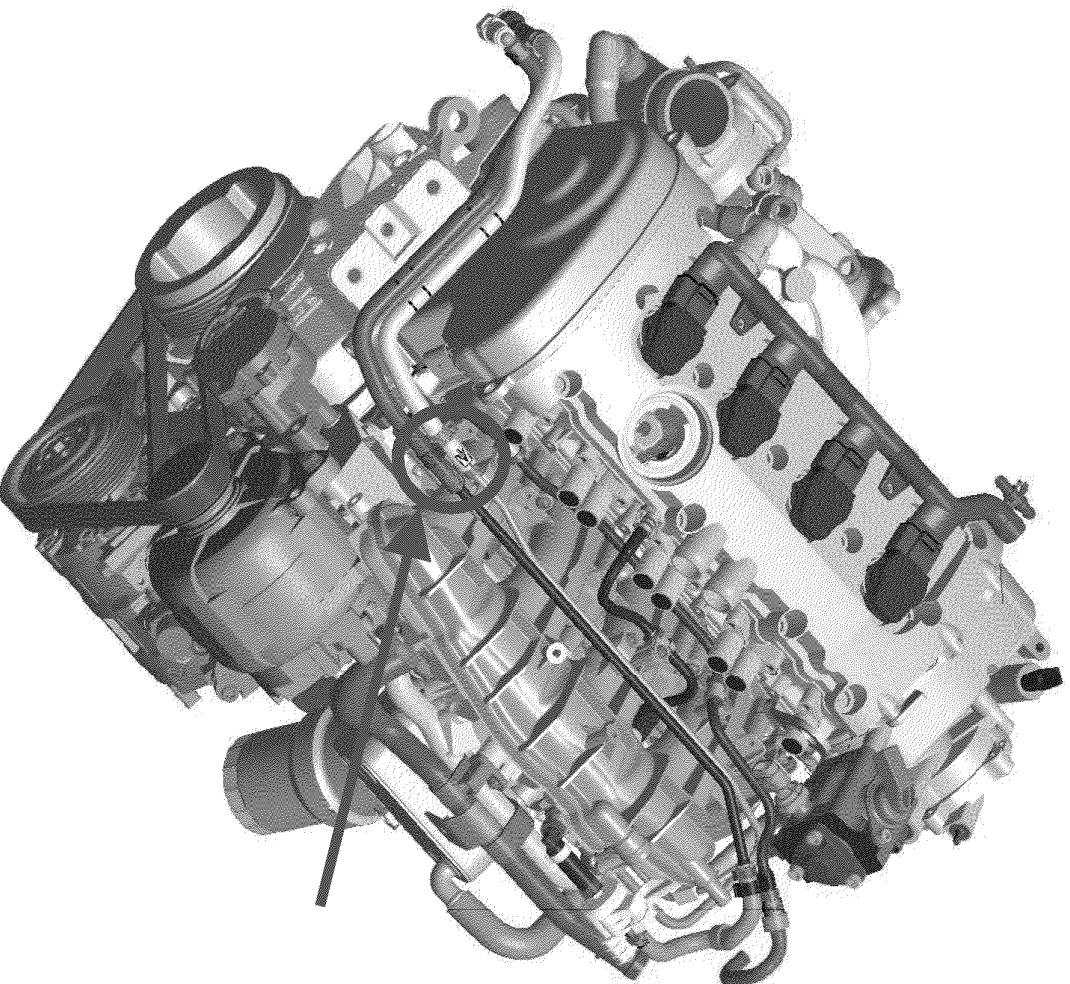
Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.
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If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Fuel Drain

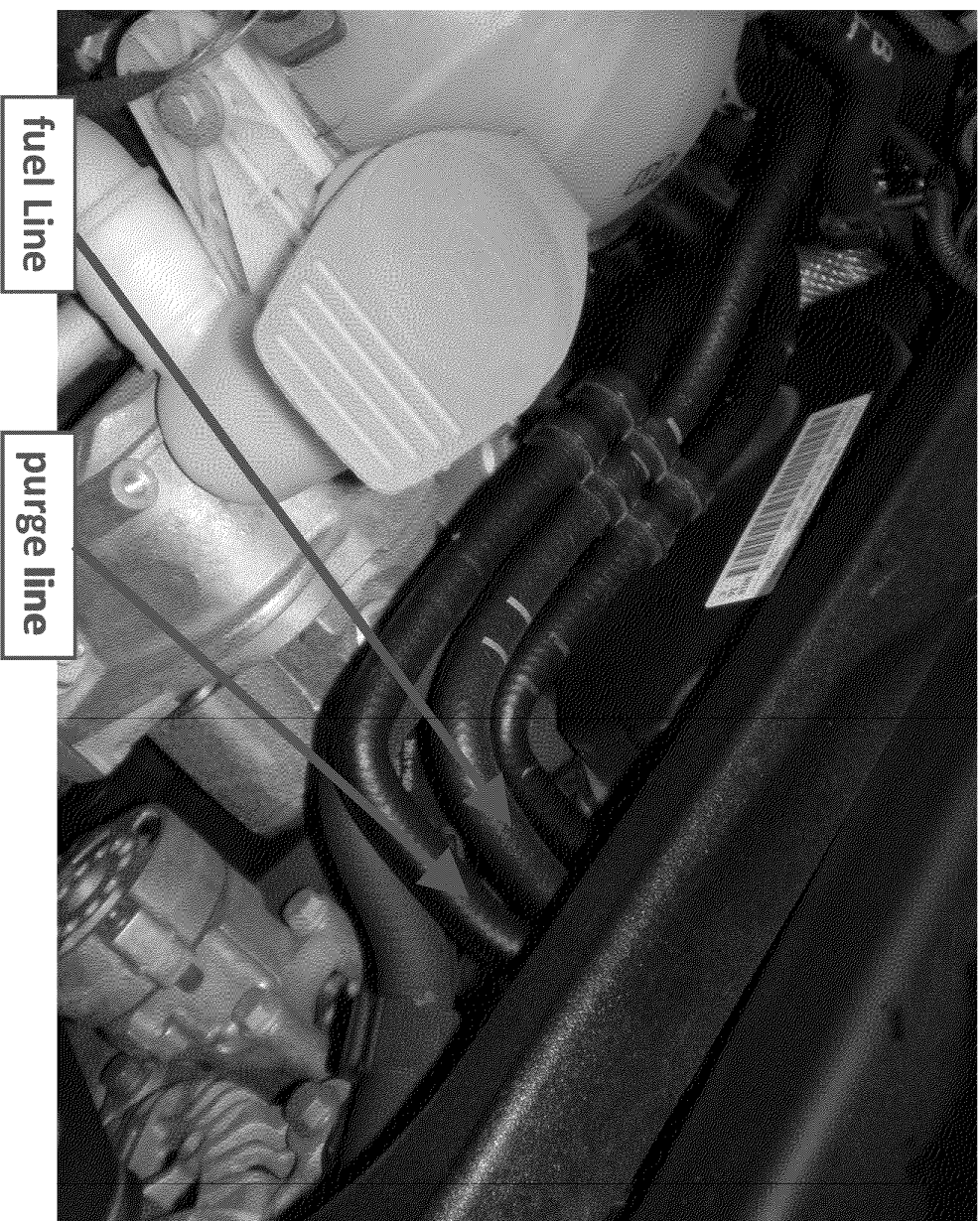


1. Remove Engine Cover

Access to Fuel Line and
Purge Line Connections

Fuel Drain

overview

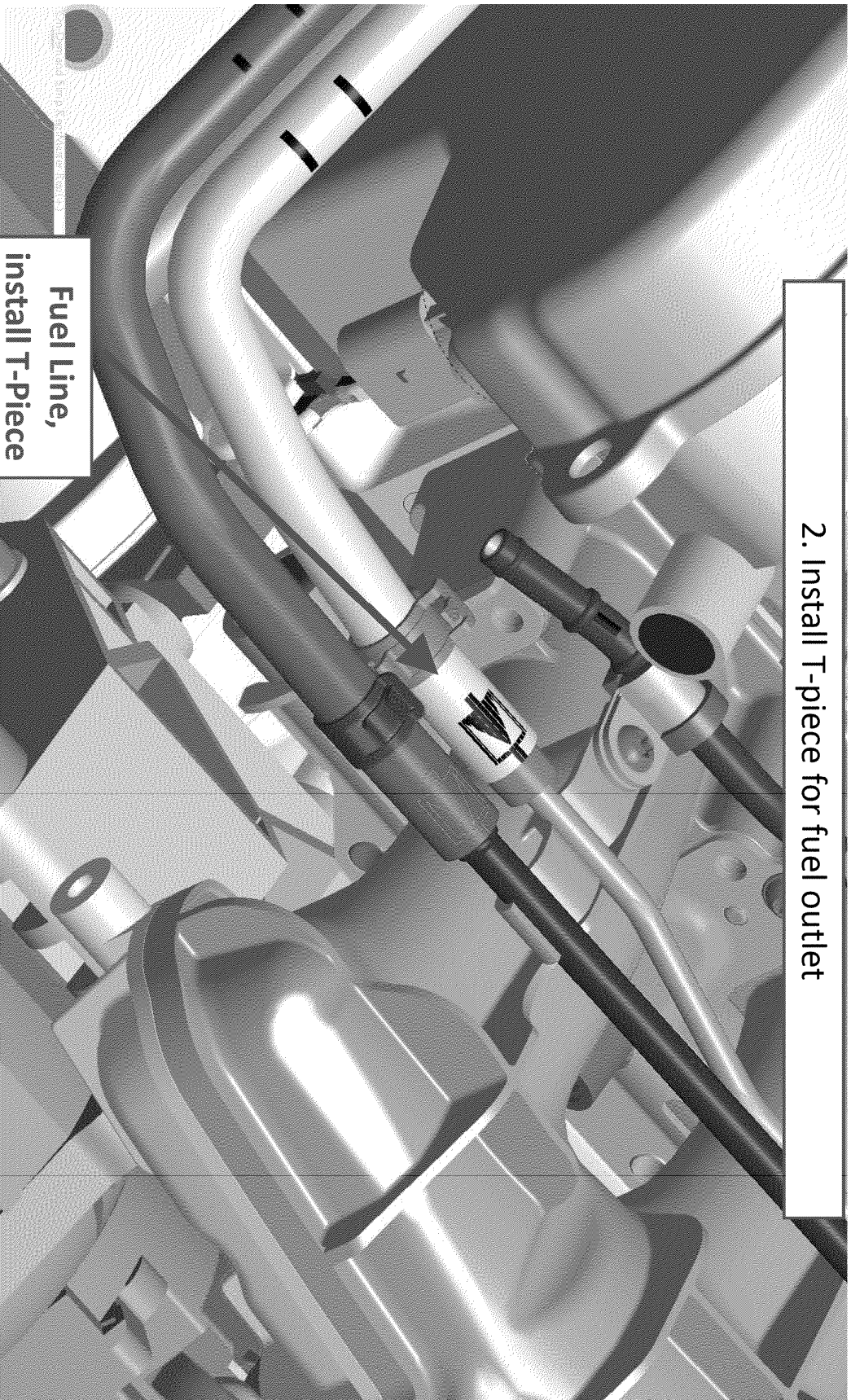


fuel line

purge line

Fuel Drain

2. Install T-piece for fuel outlet



Fuel Line,
install T-Piece

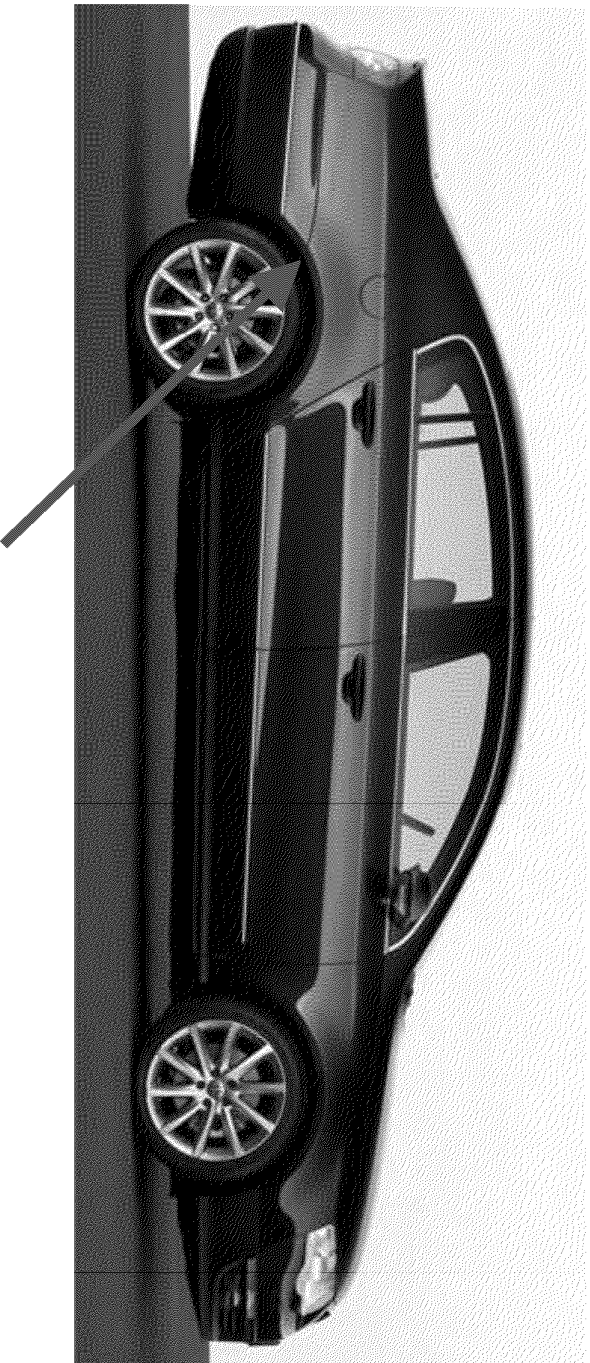
Copyright © 2015 Honda Motor Co., Ltd.

Fuel Drain, Canister Load Port

1. Remove Engine Cover
2. Install T-piece in fuel line and prepare to drain system
3. Activate 12v fuel pump until no more fuel flows.
(Should flow with key in on position without engine running. If not, use necessary means to supply fuel pump with 12v)

Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)

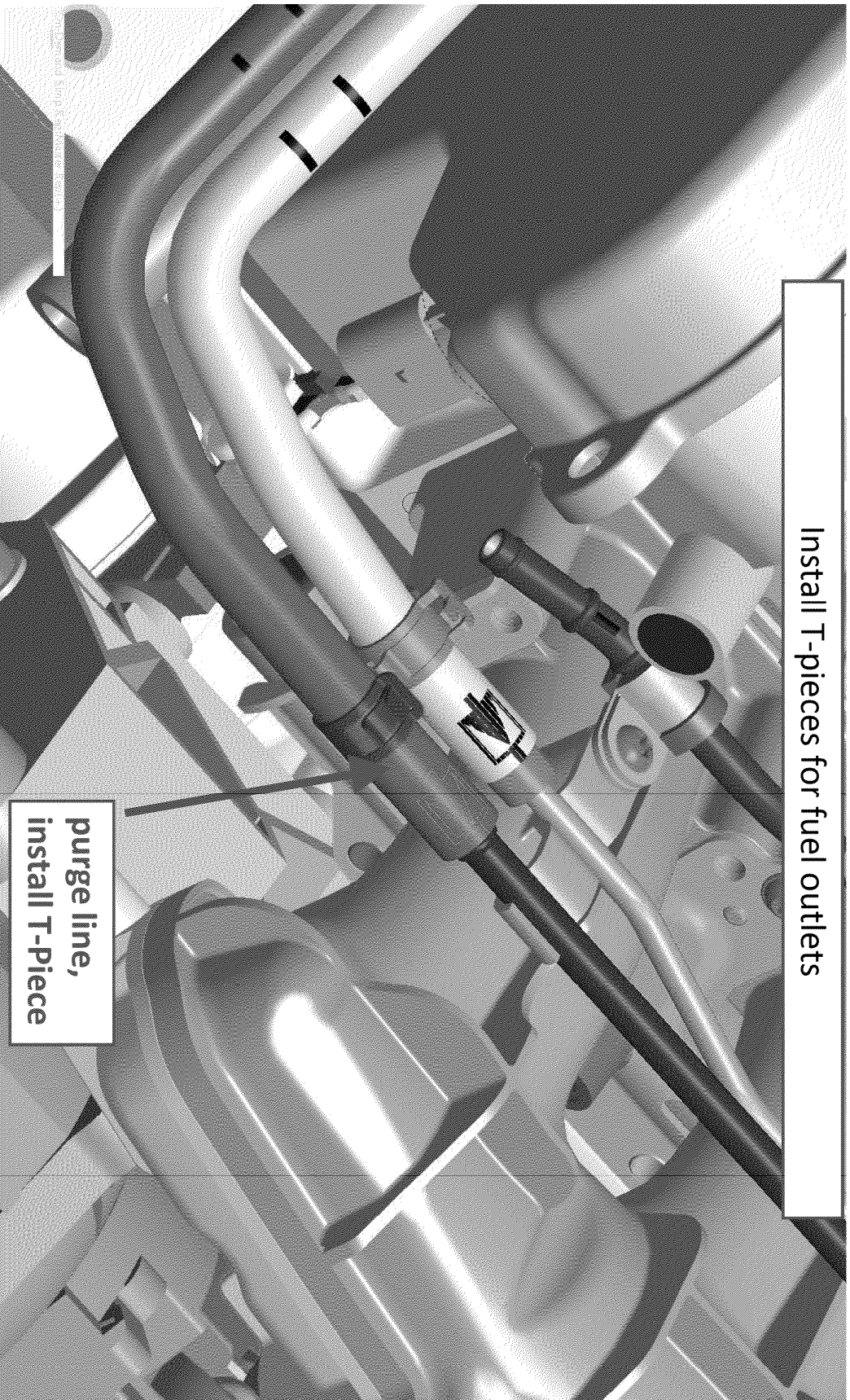


Carbon canister is placed in the wheel housing behind the wheel housing liner on the right side of the vehicle.

1. Remove wheel on the right in the back of the vehicle
2. Remove the wheel housing liner
3. Now you have access to the carbon canister

Canister Load Port

Install T-pieces for fuel outlets

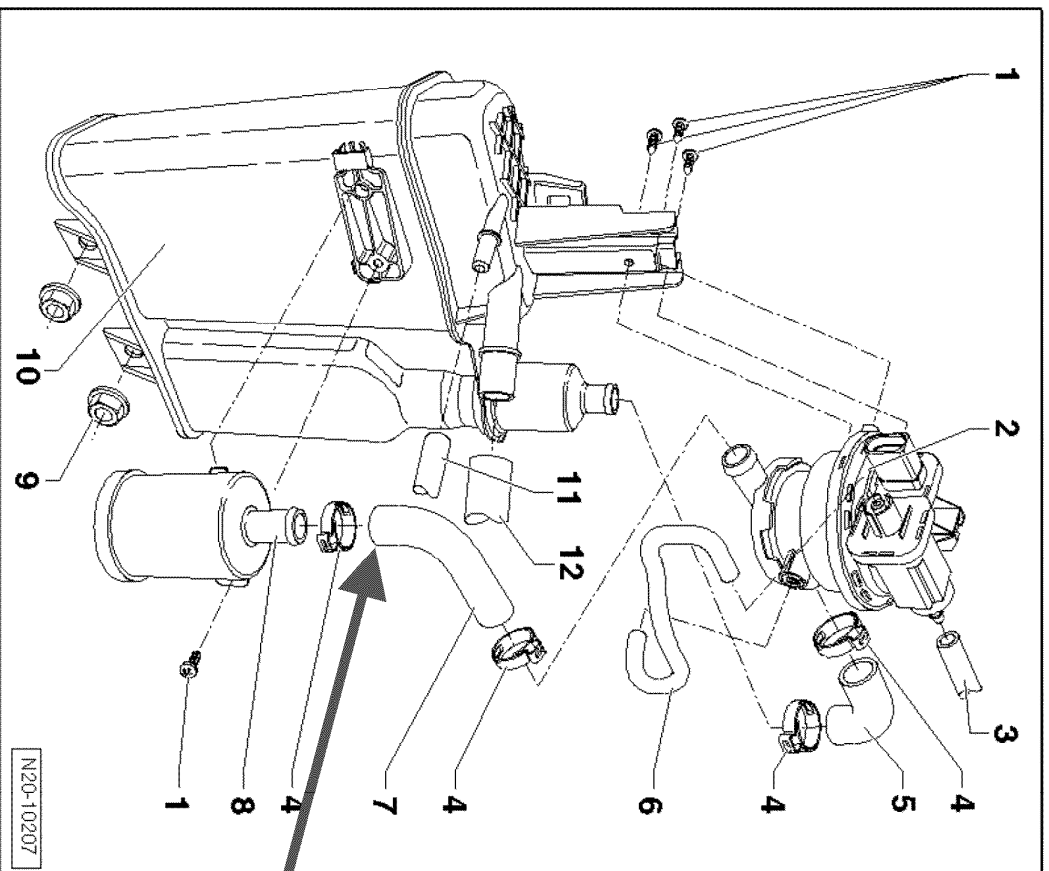
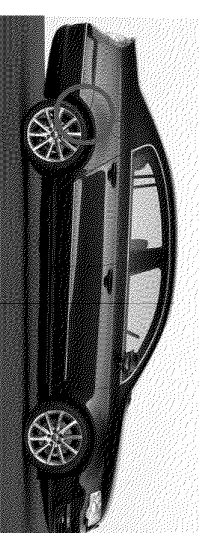


purge line,
install T-Piece

Copyright © 2015 Ford Motor Company

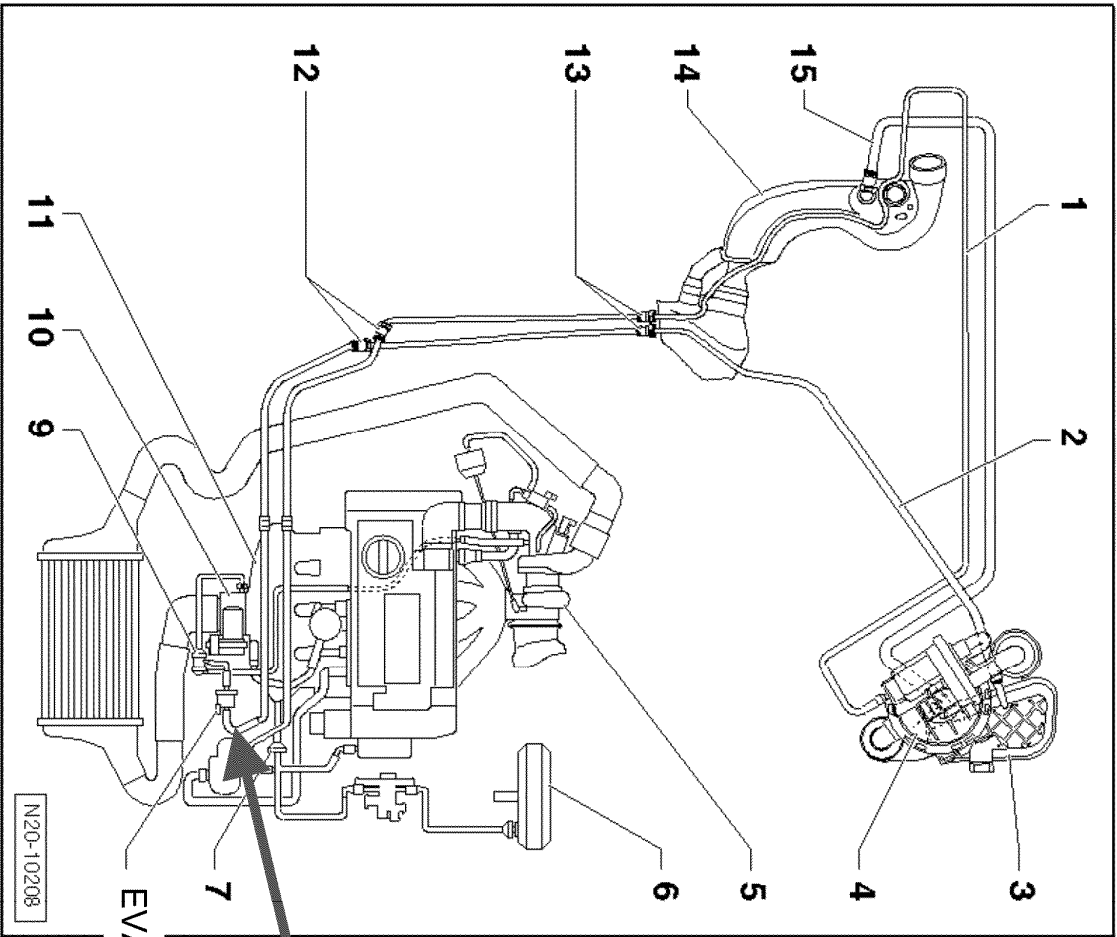
Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)



Ventilation Port,
install Vent Line here

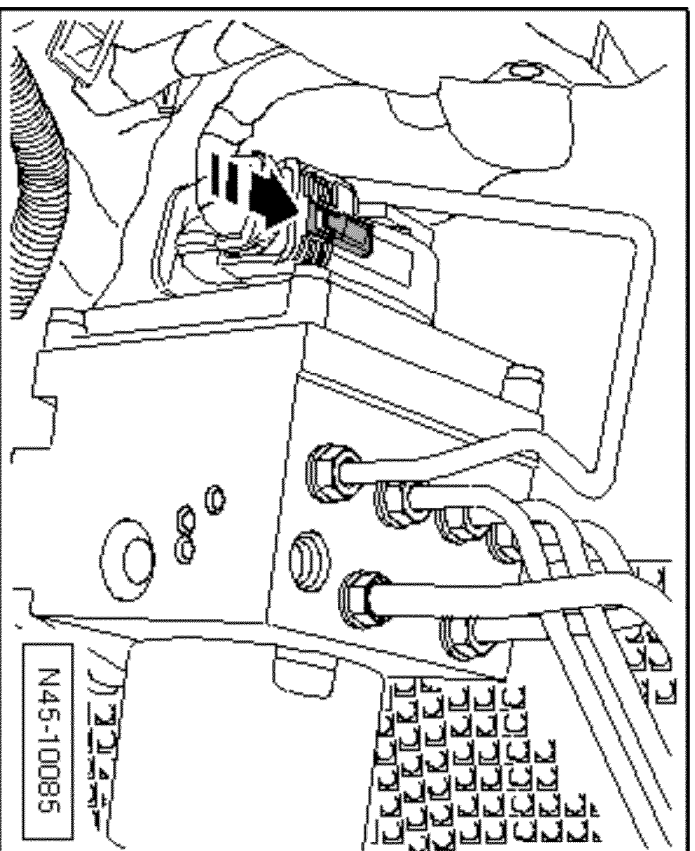
Structure of the Evap. System for Canister Loading/Purging



ABS disabling process

ESP SYSTEM DEACTIVATION:

- Remove the Plug on the ABS control unit (Engine Compartment)



To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/24/2010 12:59:46 PM
Subject: RE: In-use vehicles scheduled for next week
[In-Use Parameters Form N148RXX-0299 \[Ex. 6\].xlsx](#)
[Fuel Drain Instructions.pdf](#)

Hi, Sebastian.

I have a question from the lab. The tire pressure that is listed on the door jam is 33 lbs. That differs from the pressure indicated on the attached form of 41 lbs. Which is the preferred tire pressure?

Thanks in advance for your response.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA
Cc: "Johnson, Stuart" <Stuart.Johnson@vw.com>
Date: 08/20/2010 08:23 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Mrs. Sohacki,
Hello Bernd,

Attached you will find the required information for third car.

The instructions are the same like for the other two cars.

If you have any questions, please do not hesitate to call me.
We will be in Ann Arbor on Tuesday to check the car.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211

Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, August 19, 2010 1:24 PM
To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis
Subject: In-use vehicles scheduled for next week

Hello.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0299 (2008 VW/Passat) - Ex. 6 0930 vehicle pick up on 8/24/10 (Tuesday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

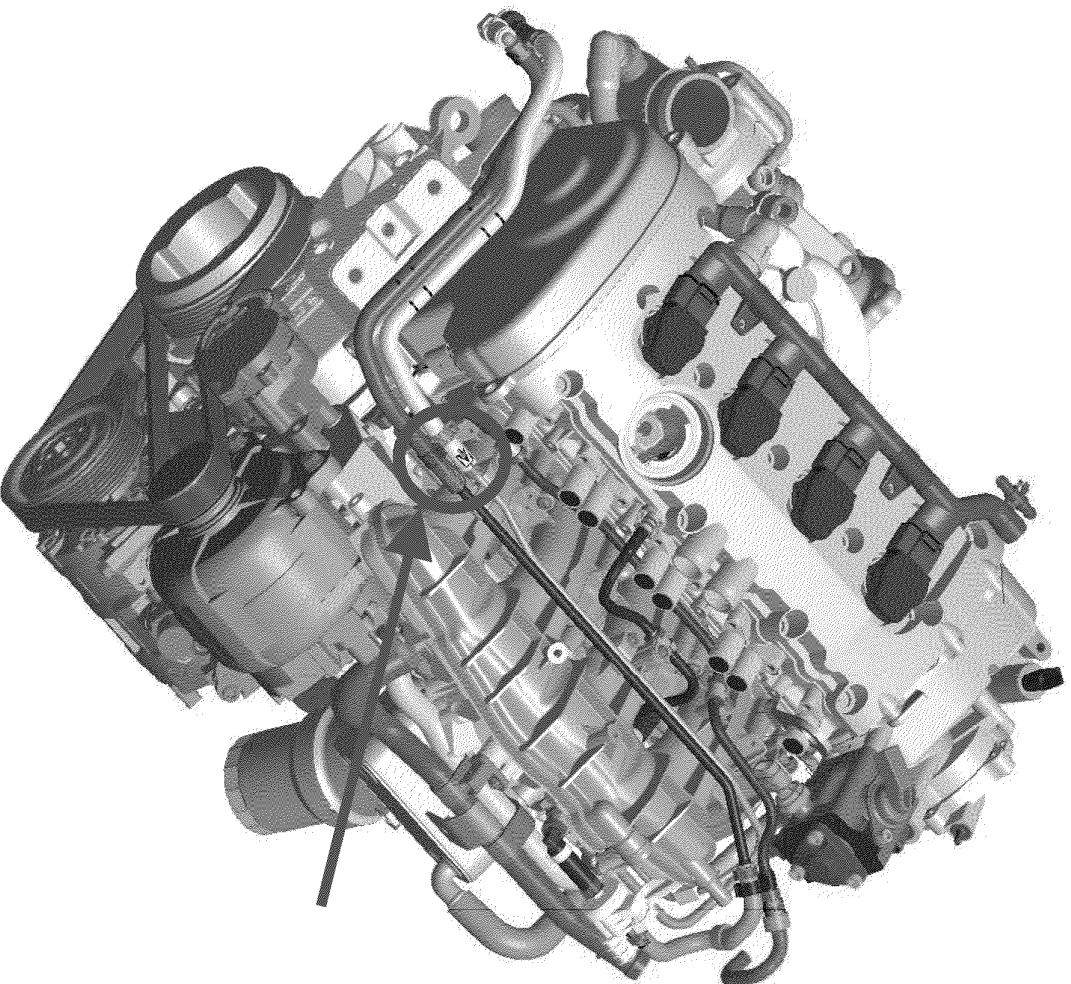
Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Fuel Drain

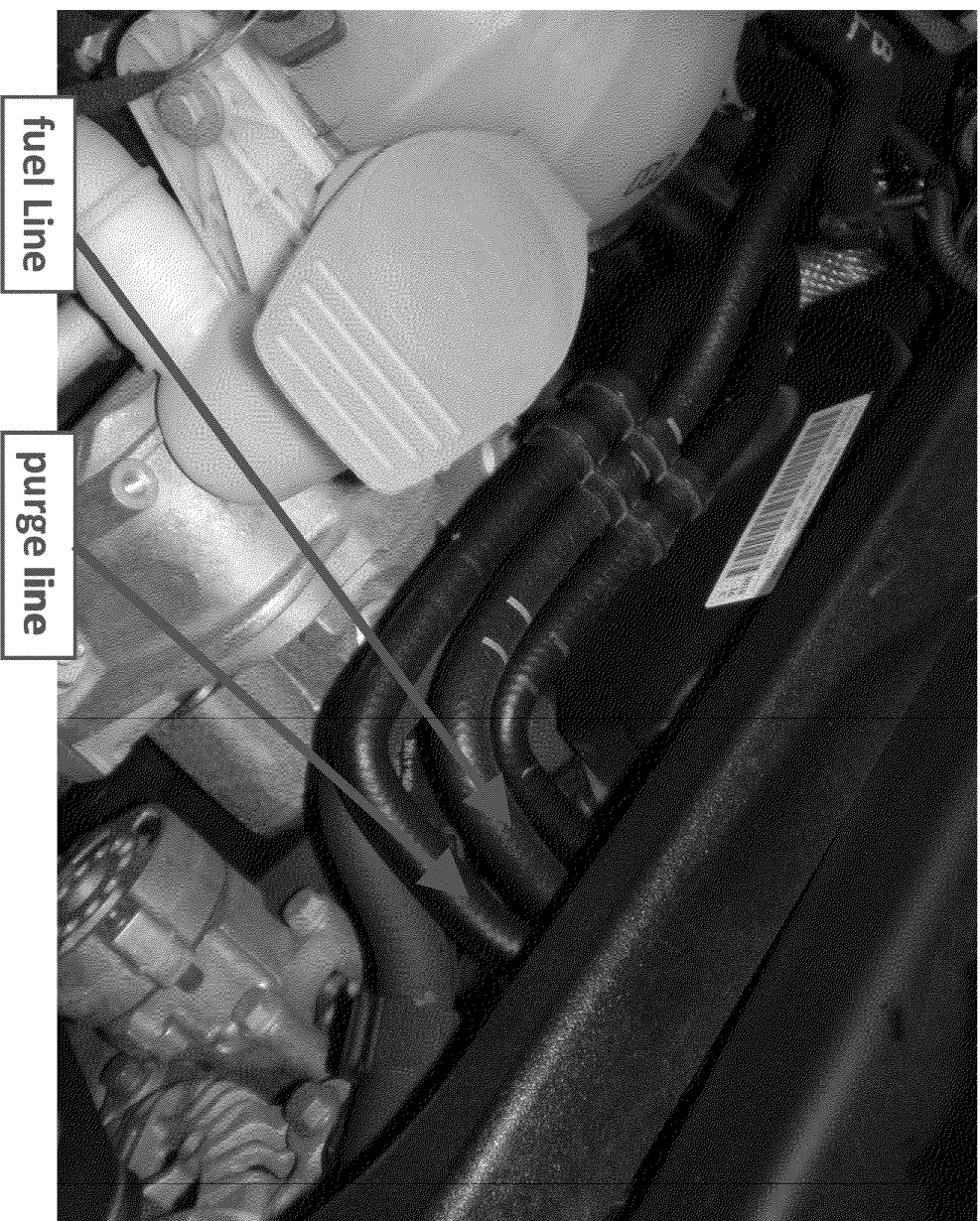


1. Remove Engine Cover

Access to Fuel Line and
Purge Line Connections

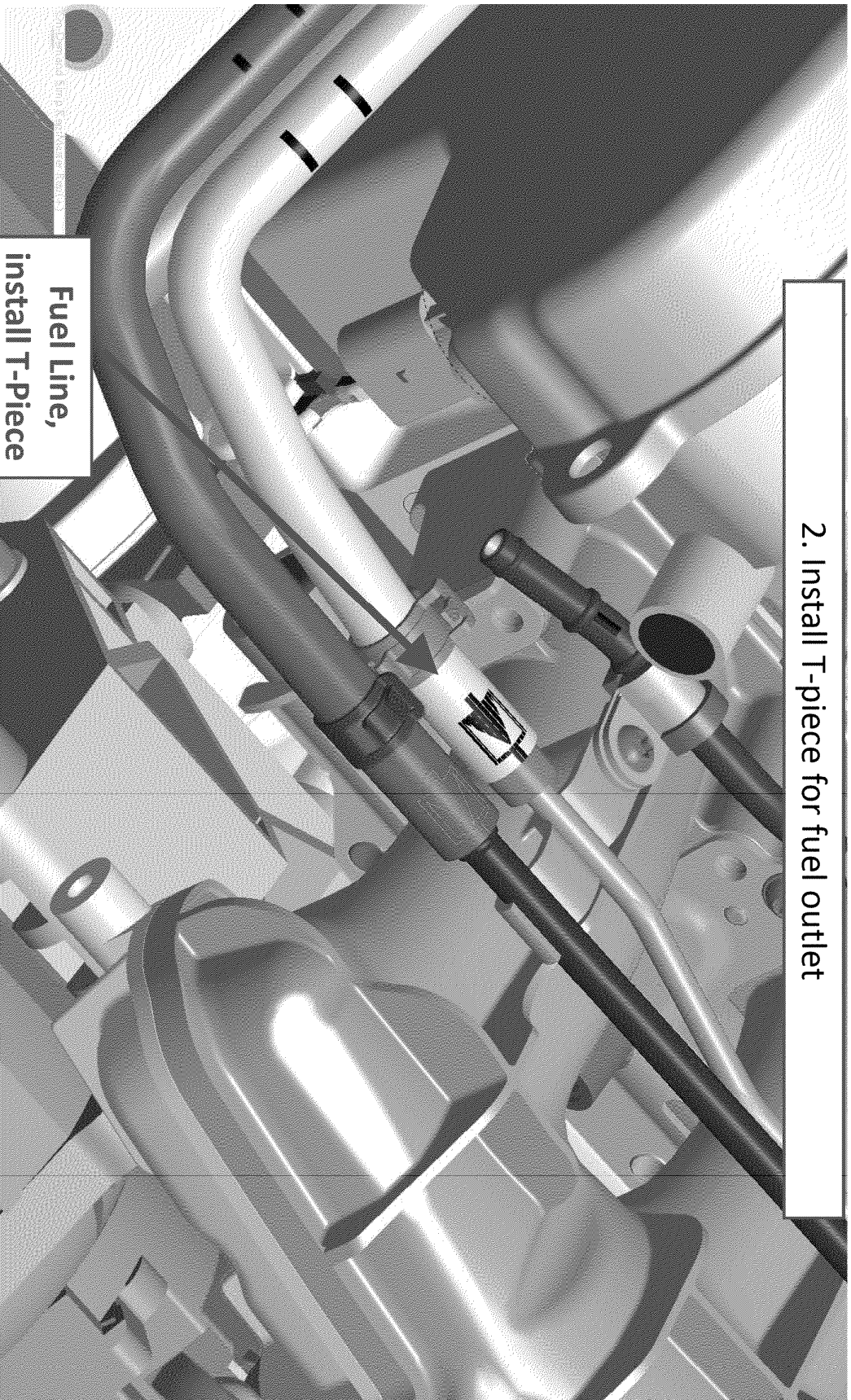
Fuel Drain

overview



Fuel Drain

2. Install T-piece for fuel outlet

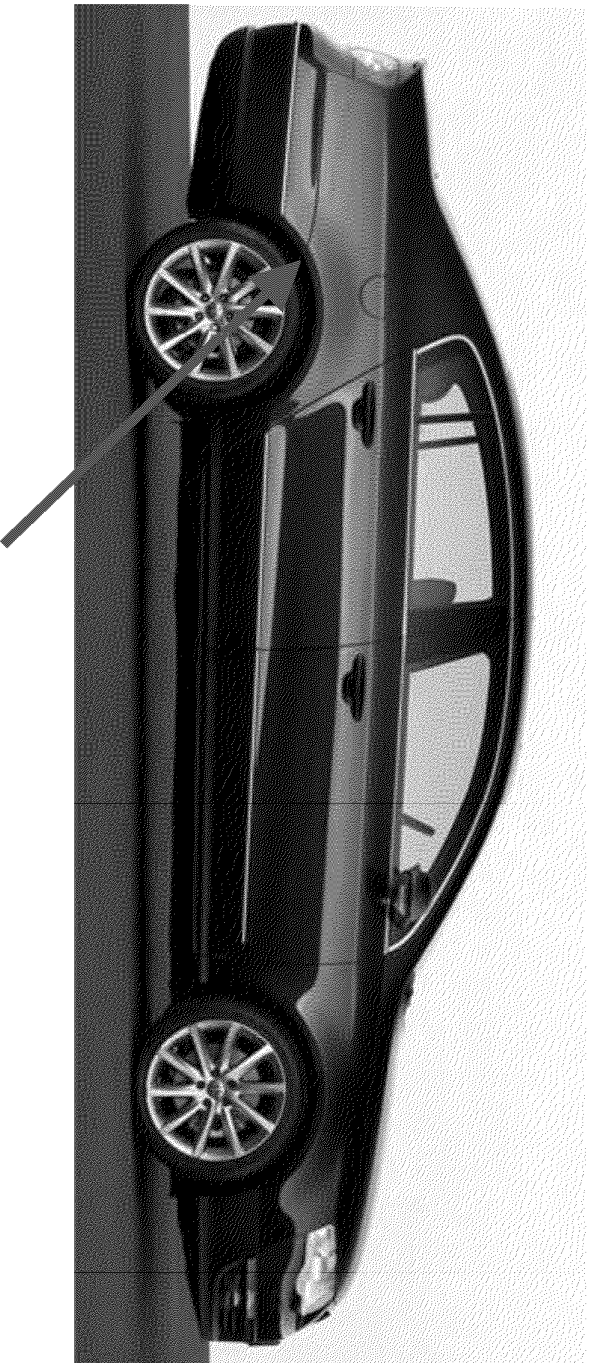


Fuel Drain, Canister Load Port

1. Remove Engine Cover
2. Install T-piece in fuel line and prepare to drain system
3. Activate 12v fuel pump until no more fuel flows.
(Should flow with key in on position without engine running. If not, use necessary means to supply fuel pump with 12v)

Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)

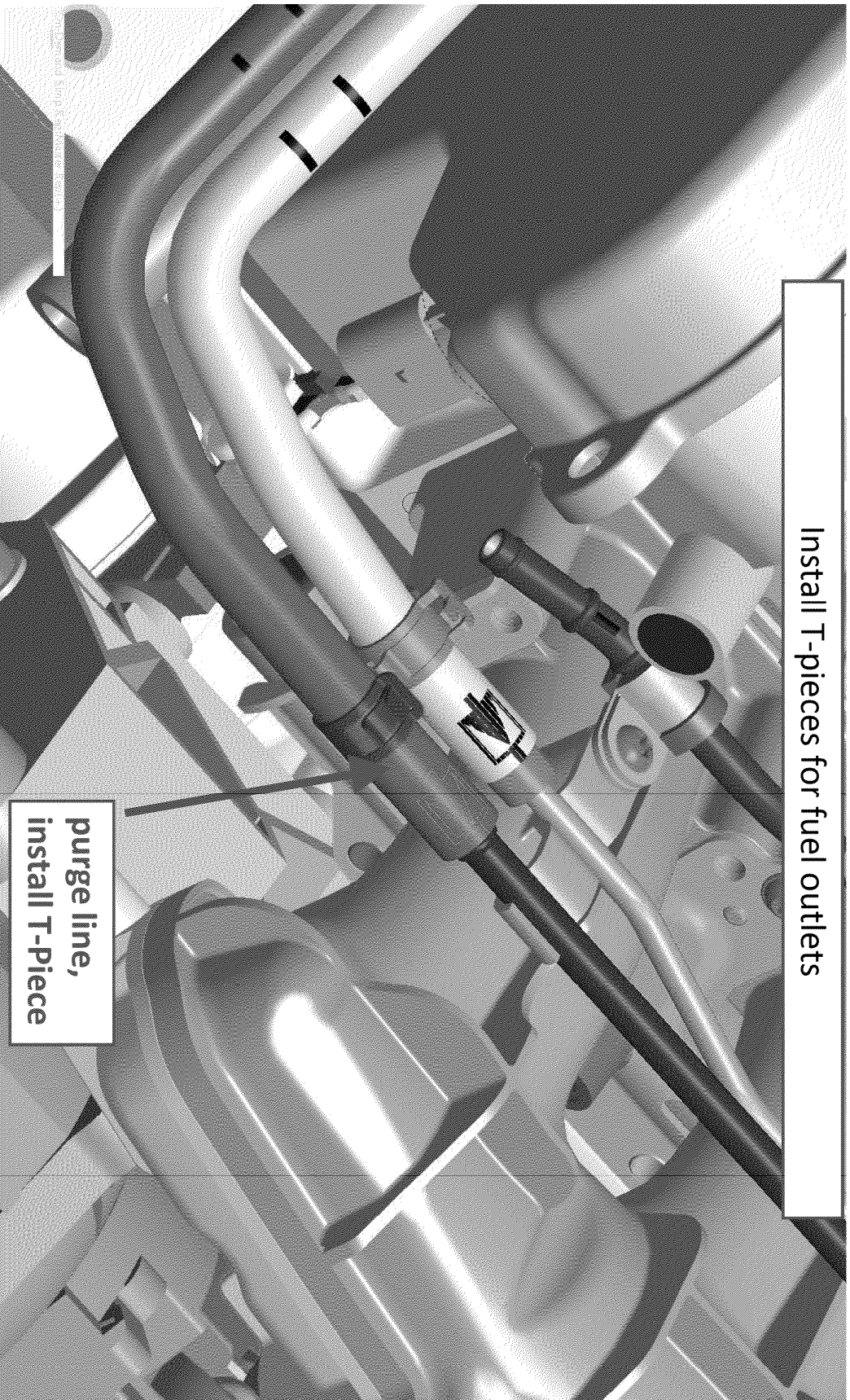


Carbon canister is placed in the wheel housing behind the wheel housing liner on the right side of the vehicle.

1. Remove wheel on the right in the back of the vehicle
2. Remove the wheel housing liner
3. Now you have access to the carbon canister

Canister Load Port

Install T-pieces for fuel outlets

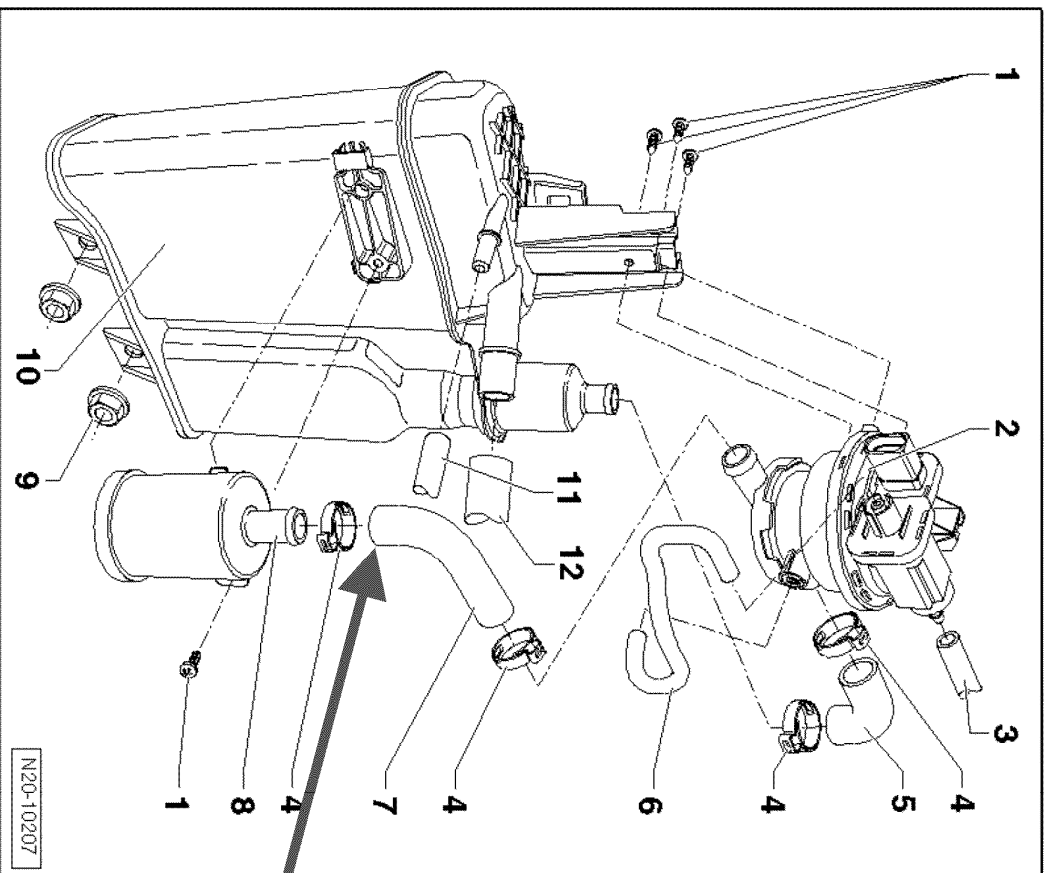


purge line,
install T-Piece

In-Process Step 1 (continued)

Carbon Canister Loading

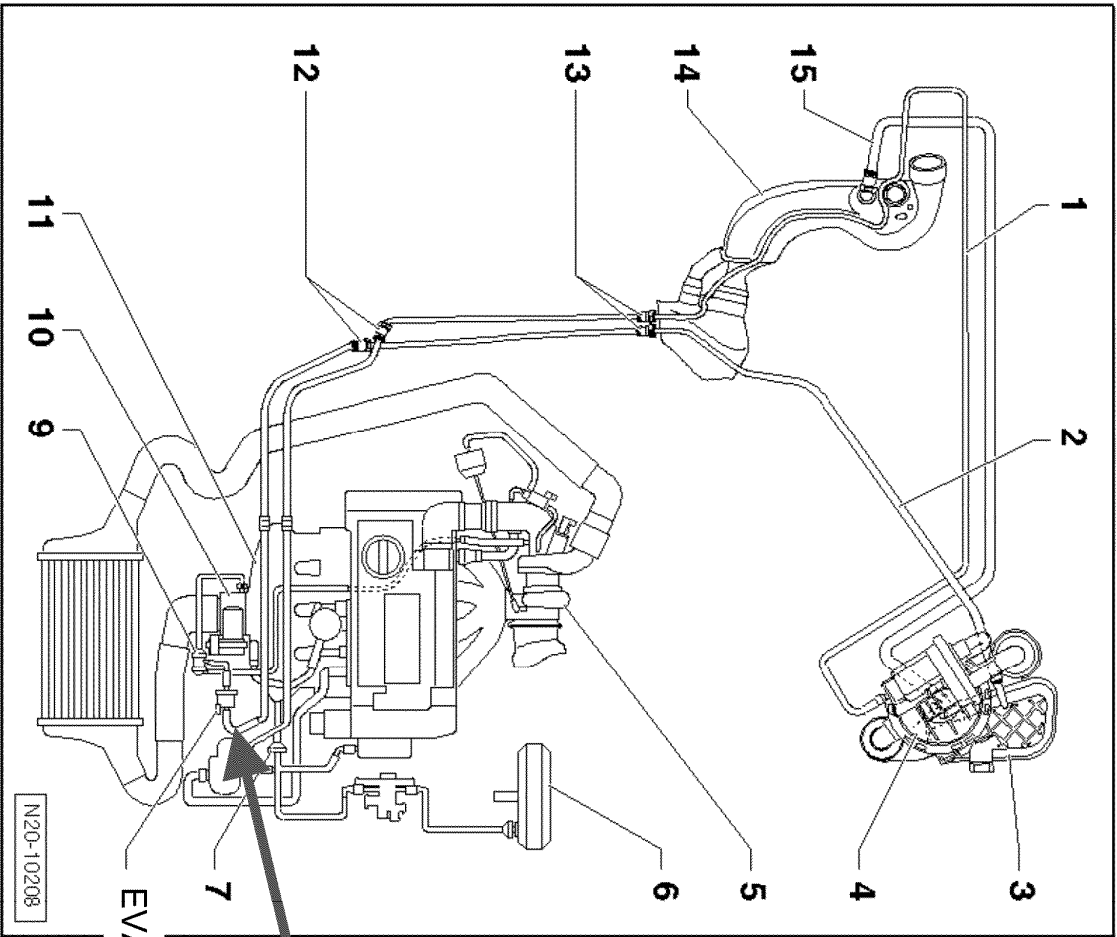
Ventilation Port (rear right Wheel Housing)



Ventilation Port,
install Vent Line here

N20-10207

Structure of the Evap. System for Canister Loading/Purging



Front of the vehicle:
Loading Port,
install Vent Line here

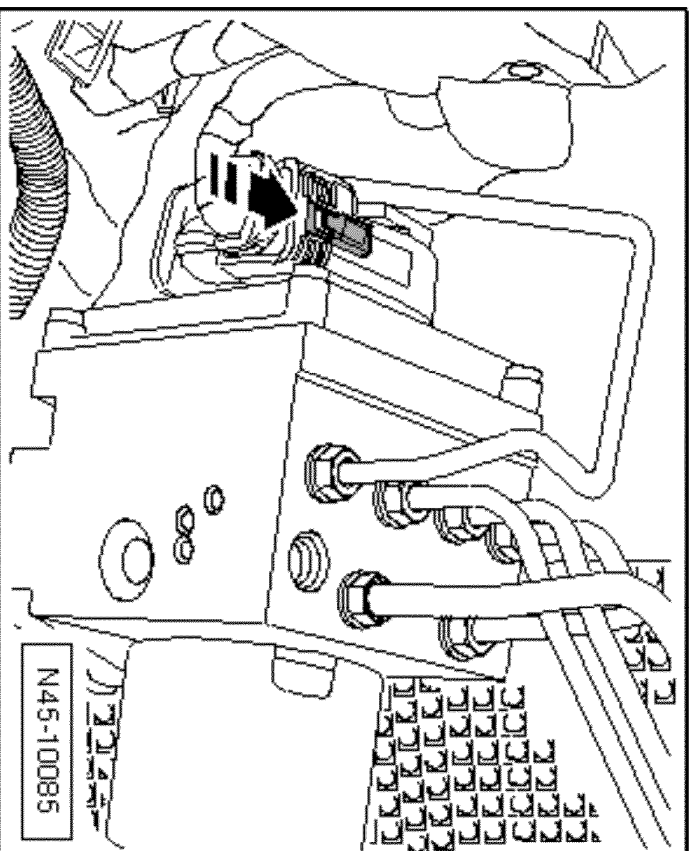
EVAP Purge Valve

N20-10208

ABS disabling process

ESP SYSTEM DEACTIVATION:

- Remove the Plug on the ABS control unit (Engine Compartment)



To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Bernd Liebner/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com];
Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Berenz, Sebastian"
Sent: Tue 8/24/2010 6:30:24 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Mrs Sohacki,

The right tire pressure is 33lbs.
I'm sorry for that incorrect data.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, August 24, 2010 9:00 AM
To: Berenz, Sebastian
Cc: Liebner.Bernd@epamail.epa.gov; Johnson, Stuart
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

I have a question from the lab. The tire pressure that is listed on the door jam is 33 lbs. That differs from the pressure indicated on the attached form of 41 lbs. Which is the preferred tire pressure?

Thanks in advance for your response.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA
Cc: "Johnson, Stuart" <Stuart.Johnson@vw.com>
Date: 08/20/2010 08:23 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Mrs. Sohacki,
Hello Bernd,

Attached you will find the required information for third car.

The instructions are the same like for the other two cars.

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, August 19, 2010 1:24 PM
To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis
Subject: In-use vehicles scheduled for next week

Hello.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0299 (2008 VW/Passat) - **Ex. 6**, 0930 vehicle pick up on 8/24/10 (Tuesday)

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.

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If you have any questions, please feel free to contact me. Thank you.

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(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls) (See attached file: In-Use Parameters Form_N148RXX-0299 **Ex. 6**.xlsx)(See attached file: Fuel Drain Instructions.pdf)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 8/24/2010 6:48:30 PM
Subject: RE: In-use vehicles scheduled for next week

Thank you, Sebastian.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Bernd Liebner/AA/USEPA/US@EPA, "Johnson, Stuart" <Stuart.Johnson@vw.com>
Date: 08/24/2010 02:30 PM
Subject: RE: In-use vehicles scheduled for next week

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To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis

Subject: In-use vehicles scheduled for next week

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Please send the following to me for these vehicles before pick-up.

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vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use
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*disabling traction control, stability control and any load leveling the vehicle

preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

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(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls) (See attached file: In-Use Parameters Form_N148RXX-0299
Ex. 6 .xlsx)(See attached file: Fuel Drain Instructions.pdf)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 8/25/2010 8:20:57 PM
Subject: EPA's Confirmatory Maintenance Form
[N001c-002c TELEPHONE QUESTIONNAIRE.doc](#)
[N001 maintenance before FTP.doc](#)

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide. I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

**TELEPHONE QUESTIONNAIRE
FOR CONFIRMATORY CLASS:**

VEHICLE CONTROL NUMBER _____ DATE _____

ADMINISTERED BY _____

OWNER'S NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

(CALL NUMBER BELOW THAT IS MARKED WITH AN "X")

TELEPHONE (Home) / ____ / _____ (Business) / ____ / _____

BEST TIME TO CALL _____

"WE ARE AUTHORIZED BY FEDERAL LAW TO COLLECT THIS INFORMATION. WHILE YOU ARE NOT REQUIRED TO RESPOND, YOUR COOPERATION IS NEEDED TO MAKE THE RESULTS OF THIS INVESTIGATION VALID."

DATE OF CONTACT _____ TIME OF CONTACT _____

INDIVIDUAL CONTACTED _____

TO BE COMPLETED _____ DATE AND TIME OF COMPLETION _____

You have been selected from a list of vehicle owners living in the Ann Arbor / Detroit area to participate in a study of vehicle emissions being conducted by the U.S. Environmental Protection Agency.

EPA is authorized by law to conduct this study and to offer incentives to you for your cooperation should you decide to participate. Your participation in this program is strictly voluntary.

The accuracy of the information that you provide is important. The information that you provide will be used by EPA along with emission results for your car to determine whether the automobile manufacturer has complied with clean air standards established by Congress. The test results from your car will not be used by EPA to take action against you. Your cooperation will help EPA's efforts to control air pollution due to motor vehicle emissions.

Public reporting burden for this collection of information is estimated to vary from 1 to 60 minutes per response, with an average of 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Regulatory Information Division, 2136, U.S. Environmental Protection Agency, 401 M St., S.W. Washington, DC, 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

These are the conditions of the program:

We ask that you bring your vehicle into our testing facility where you will receive either a cash incentive for each day we keep your vehicle or a late model loaner car which will have a full tank of gas and unlimited mileage. This vehicle is yours to use without charge for the duration of the testing, which takes approximately three to four weeks. During this time, we will be performing a series of tests on your vehicle to measure vehicle emissions.

-at the time the vehicle is delivered to us for testing, you will be required to sign a form stating that the answers to the questions you will be asked are true and accurate to the best of your personal knowledge and belief.

We will provide you the following incentives for participating in our program:

-If your vehicle is accepted into the program, a full tank of gas and a cash incentive will be awarded. You will receive \$50 per day for each day your vehicle is at NVFEL, and the use of a fully-insured loan car; or \$75 per day for every day your vehicle is at NVFEL in lieu of a loan car. However, if your vehicle is rejected after you bring it to the lab, but before you leave, you will receive a \$20 payment.

The compensation will be based upon whole days, beginning with the day your car arrives. It will end one day after you are notified your vehicle is ready for return.

The maintenance performed on your vehicle will depend on program requirements. You will be given a list of any parts that are replaced.

Are you willing to participate? YES/ / NO/ /

If you are not, may we ask why not? _____

IF RESPONSE IS POSITIVE:

For the purpose of this study, I am going to ask you some questions about your vehicle's maintenance and usage history. You should answer these questions to the best of your knowledge and indicate when you are not sure of something.

FOR "MPF PERSONNEL" ONLY

SENTENCES IN CAPPITAL LETTERS ARE INSTRUCTIONS TO THE CLERK
AND ARE NOT INTENDED TO BE READ TO THE OWNER.

1. a. **What are the model year, transmission type, vehicle identification number and engine family of your vehicle? The engine family can be found on a Vehicle Emission Control Information decal located under the engine hood.**

The engine family should start with the letters 8 A D.

/ / Owner is unable to locate.

/ / Owner located. ENGINE FAMILY _____

/ / Engine family located when vehicle arrived at the Lab.

ENGINE FAMILY _____

ELIMINATE IF ENGINE FAMILY IS NOT 8AD XV03.1374

b. MODEL _____ VEHICLE ID NO. _____

MODEL YEAR _____

TRANSMISSION: AUTOMATIC / / AIR CONDITIONED: YES/ / NO/ /
MANUAL / / ODOMETER MILEAGE: _____

ELIMINATE IF MILEAGE IS UNKNOWN OR OVER 75,000 MILES.

VEHICLES WITH MILEAGE OVER 50,001 SHOULD BE ASSIGNED TO CLASS N002C

- c. **Has the odometer ever not functioned properly?**

YES/ / NO/ /

If yes, approximately how long (months/miles) was it inoperable? _____

CONSULT EPA FOR ELIGIBILITY IF THE RESPONSE IS "YES"

2. a. **When and where did you obtain your vehicle? When** _____
Where _____

- b. **Was the vehicle utilized as a demonstrator prior to you purchase?**

YES/ / NO/ / DO NOT KNOW / /

IF THE ANSWER IS YES, ELIMINATE VEHICLE. CONSULT EPA IF DON'T KNOW

c. What was the mileage at the time of purchase or lease. _____

CONSULT EPA IF MILEAGE IS OVER 400.

d. Are you the original purchaser or lessee of the vehicle?

YES/ / NO/ /

IF OBTAINED NEW, GO TO NEXT NUMBERED QUESTION. IF OBTAINED USED FROM OWNER'S EMPLOYER OR IMMEDIATE FAMILY MEMBER, GO TO (e); OTHERWISE ELIMINATE.

e. Have you been the driver responsible for fueling, repairs and maintenance since the vehicle was new?

YES/ / NO/ /

IF NO, ELIMINATE.

3. Was the vehicle tested in a previous EPA or VW/AUDI emission program?
(REGULARLY REQUIRED STATE RUN EMISSIONS CHECKS ARE NOT INCLUDED)

YES/ / NO/ /

CONSULT EPA FOR ELIGIBILITY IF YES.

	YES	NO
4. Has your vehicle ever been used as a taxi?	_____	_____
5. Has your vehicle ever been used as a commercial delivery vehicle?	_____	_____
6. Has your vehicle ever been used to race in competitive speed events?	_____	_____
7. Have you ever used your vehicle in severe dust conditions?	_____	_____
8. Have you ever used your vehicle to plow snow?	_____	_____
9. Has the fuel pipe restrictor been modified or removed from your vehicle?	_____	_____

ELIMINATE IF ANY POSITIVE RESPONSE TO QUESTIONS 4 THROUGH 9.
(FOR TRUCKS ELIMINATE IF ANY POSITIVE RESPONSE TO 6 THRU 9)

10. Has the vehicle been equipped to permit trailer towing?

YES/ / NO/ /

If yes; how and by whom? _____

11. Has the vehicle been used to pull trailers?

YES/ / NO/ /

ELIMINATE IF RESPONSE IS "YES"

12. a. Is your vehicle equipped with air conditioning?

YES/ / NO/ / IF NO, GO TO 13.

b. Was the air conditioning unit on your vehicle:

1) Factory installed? / /

2) Dealership installed? / /

3) Nondealership installed? / /

4) Do not know? / /

CONSULT EPA IF RESPONSE IS 2), 3), OR 4).

13. Have any of the following special devices been installed on your vehicle other than standard parts made by VW/AUDI?

a. exhaust headers _____

b. camshaft _____

c. ignition equipment _____

d. carburetor or fuel injection components _____

e. modifications to computerized engine control _____

f. other (describe)

g. THIS ITEM IS FOR TRUCKS ONLY

Cap. toolbox, bedliner or other structure or device mounted in the truck bed.

(Describe including the device weight) _____

REMIND THE OWNER TO REMOVE LOOSE ITEMS FROM ALL COMPARTMENTS IN THE

TRUCK BED BEFORE BRINGING IT IN.

CONSULT EPA IF THERE IS A POSITIVE RESPONSE FOR ANY OF THE ABOVE ITEMS.

14. a. How many times per year do you drive on unpaved roads? _____

b. What percent of your mileage do you estimate you drive on unpaved roads? _____

ELIMINATE IF OVER 5%. (DELETE THIS QUESTION FOR TRUCK CLASSES)

15. Have you ever used any fuel other than that recommended by the manufacturer in your vehicle? (ex. leaded, E85)

YES / / NO / /

If Yes, what have you used? _____

How often have you used it? _____

When was the last time you used it? _____

IF YES, CONSULT EPA FOR ELIGIBILITY.

16. Have there been any problems with the catalytic converter?

YES/ / NO/ / DON'T KNOW / /

If yes, describe _____

CONSULT EPA IF YES OR DON'T KNOW.

17. Have any settings been misadjusted or have the emission control system components been altered, modified or disconnected?

YES/ / NO/ /

If yes, explain what, when, and where.

WHAT _____

WHEN _____

WHERE _____

IF YES, CONSULT EPA FOR ELIGIBILITY.

18. a. Has your vehicle ever overheated?

- 1) Never
- 2) One Time
- 3) More than One Time

ELIMINATE IF VEHICLE HAS OVERHEATED MORE THAN ONCE. IF VEHICLE HAS OVERHEATED ONCE, OBTAIN RESPONSES TO b,c AND d, THEN CONSULT EPA.

b. How did you know the vehicle overheated?

- 1) Temperature Gauge or Light
- 2) Steam From Under the Hood
- 3) Other _____

c. How far was the vehicle driven in an overheated condition?

- 1) Less than a mile
- 2) 1-3 miles
- 3) Greater than 3 miles

CONSULT EPA IF 1 OR 2; ELIMINATE IF 3.

d. When and where did vehicle overheat and what did you do?

19. a. Has your vehicle ever been involved in an accident?

YES/ / NO/ /

IF YES COMPLETE QUESTIONS (b), (c), (d), and (e).

b. As a result of an accident has your vehicle ever had damage in any of the following areas?

	Yes	No
1) Engine.....	_____	_____
2) Cooling System.....	_____	_____
3) Carburetor or Fuel Injection System.....	_____	_____
4) Exhaust System.....	_____	_____
5) Fuel Tank.....	_____	_____
6) Ignition System.....	_____	_____
7) Emission Control System.....	_____	_____
8) Other (Specify).....	_____	_____

c. If “yes” for any of 1 to 8 describe the damage and the circumstances of the accident.

IF THERE WAS DEFINITE DAMAGE TO ANY OF THESE COMPONENTS OR IF THE OWNER IS UNSURE WHETHER THE ABOVE COMPONENTS WERE DAMAGED, CONSULT EPA.

d. Has the damage been repaired?

YES/ / NO/ /

e. If yes; what, when, by whom and at what cost?

What _____

When _____

Who _____ Cost _____

20. a. Has your “Check Engine” light (Malfunction Indicator Light) ever been on during vehicle operation at any time other than start up?

YES/ / NO/ / IF YES, GO TO b and c.

b. Describe the circumstances of each occurrence: _____

c. How many miles was the vehicle driven with the light on before repairs were made? (If more than one instance, list for each.)

ELIMINATE IF DRIVEN MORE THAN 1,000 MILES IN ANY ONE INSTANCE.

d. What was done to repair the vehicle after the light came on?

(IF MORE THAN ONE INSTANCE, LIST FOR EACH.) _____

IF REPAIRS WERE MADE WITHIN 1,000 MILES, CONSULT EPA FOR ELIGIBILITY.

21. a. When were the oil and oil filter first changed after obtaining the vehicle?

Date _____ Mileage _____

CONTACT EPA IF MORE THAN 10,500 MILES OR 13 MONTHS

b. When were the oil and oil filter changed the second time after obtaining the vehicle?

Date _____ Mileage _____

CONTACT EPA IF THE INTERVAL IS MORE THEN 11,500 MILES AFTER THE FIRST TIME.

c. IF OWNER HAS RECORDS SHOWING DATES AND MILEAGE OF OIL AND FILTER CHANGES, OBTAIN THE FOLLOWING INFORMATION:

How many oil and oil filter changes have you had?

(IF FILTER CHANGE WAS PERFORMED, INDICATE BY CHECK MARK IN PROVIDED SPACE).

DATE _____ OIL CHANGE / / DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / / MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

d. IF OWNER DOES NOT HAVE SERVICE RECORDS SHOWING DATES AND MILEAGE OF OIL AND FILTER CHANGES, BUT CHANGES ARE BASED ON TIME AND/OR MILEAGE INTERVALS, COMPLETE THE FOLLOWING:

- 1) At what interval is oil changed: time _____ miles _____
- 2) At what interval is filter changed; time _____ miles _____
- 3) Is oil / oil-filter changed in response to service-reminder lamp? _____
- 4) Who performs this work? _____

e. What is the longest period by months and mileage your vehicle has gone between oil changes? (SEE c.AND d. ABOVE TO VERIFY AND/OR CALCULATE THIS ANSWER.)

MONTHS _____ MILES _____
CONTACT EPA IF EITHER IS MORE THAN 11,500 MILES OR 14 MONTHS.

f. What is the longest period by months and mileage your vehicle has gone between oil filter changes?

(SEE c AND d ABOVE TO VERIFY AND/OR CALCULATE THIS ANSWER.)

MONTHS _____ MILES _____

CONTACT EPA IF EITHER MORE THAN 11,500 MILES OF 14 MONTHS**g. What was the approximate date of your last oil and oil filter change?**OIL CHANGE: DATE _____ MILEAGE _____

PERFORMED BY _____

OIL FILTER CHANGE: DATE _____ MILEAGE _____

PERFORMED BY _____

22. a. IF OWNER ALSO HAS RECORDS SHOWING DATES AND MILEAGE OF TUNE-UPS, OBTAIN THE FOLLOWING INFORMATION.

How many times has your vehicle received a routine tune-up maintenance such as: ignition (or spark) timing adjustment, fuel system adjustment and spark plug replacement? If possible, please state what was performed during the tune-up.

DATE _____ / / IGNITION TIMING / / FUEL SYSTEM* ADJUSTMENT

MILEAGE _____ / / SPARK PLUG REPLACEMENT

PERFORMED BY _____

DATE _____ / / IGNITION TIMING / / FUEL SYSTEM* ADJUSTMENT

MILEAGE _____ / / SPARK PLUG REPLACEMENT

PERFORMED BY _____

*Carburetor or Fuel Injection System

CONTACT EPA IF SPARK PLUG CHANGE INTERVAL WAS EVER GREATER THAN 40,600 MILES.**b. IF OWNER DOES NOT HAVE RECORDS OF TUNE-UPS, BUT TUNE-UPS ARE PERFORMED BASED ON TIME/MILEAGE INTERVALS, COMPLETE THE FOLLOWING:**

- 1) At what interval is tune-up maintenance performed?

Months _____ Miles _____

- 2) What is the longest interval between spark plug changes?

Months _____ Miles _____

- 3) Who performs this work? _____

CONTACT EPA IF SPARK PLUG CHANGE INTERVAL WAS EVER GREATER THAN 40,600 MILES.

c. What other scheduled maintenance has been performed?

Description _____

Date _____ Mileage _____

Performed by _____

Description _____

Date _____ Mileage _____

Performed by _____

Description _____

Date _____ Mileage _____

Performed by _____

d. What is the largest amount of money you have ever spent for maintenance or repairs to your car?

_____ dollars _____ don't know

WHAT _____

WHY _____

WHEN _____

WHERE _____

23. a. Has any unscheduled maintenance (i.e., maintenance to correct a problem) been performed on your vehicle in the following areas?

	<u>YES</u>	<u>NO</u>
Engine	_____	_____
Fuel injection	_____	_____
Transmission, drive shaft, axle	_____	_____
Exhaust system	_____	_____
Ignition system/Electrical system	_____	_____
Cooling system	_____	_____
Fuel tank	_____	_____
Emission control system	_____	_____
Oxygen Sensor	_____	_____
Computerized engine system	_____	_____
Other	_____	_____

b. If the answer to any of the above items is yes, please describe what, why, when, and where.

WHAT _____

WHY _____

WHEN _____

WHERE _____

WHAT _____

WHY _____

WHEN _____

WHERE _____

WHAT _____

WHY _____

WHEN _____

WHERE _____

CONSULT EPA FOR ELIGIBILITY IF QUESTION (b) IS ANSWERED

**24. a. Have you had any performance or drivability problems with your vehicle?
(Including problems described in question 23.)**

YES / / NO / /

IF NO, GO TO NEXT NUMBERED QUESTION.

If yes, describe: _____

b. Would the problems you described fall into any of the following categories?

	<u>Never</u>	<u>Occasionally</u>	<u>Frequently</u>
1) Hard Starting	_____	_____	_____
2) Poor Cold Performance	_____	_____	_____
3) Poor Acceleration	_____	_____	_____
4) Hesitation	_____	_____	_____
5) Stalling	_____	_____	_____
6) Dieseling (after run)	_____	_____	_____
7) Back firing	_____	_____	_____
8) Stumbling	_____	_____	_____
9) Engine Knock	_____	_____	_____
10) Rough Idle	_____	_____	_____
11) Engine Misfiring	_____	_____	_____
12) Other	_____	_____	_____

Describe other problems? _____

c. What was done to eliminate performance problems(s)?

WHAT _____

WHEN _____

WHERE _____

WHAT _____

WHEN _____

WHERE _____

d. When did the problems you mentioned above occur?

- 1) When you first obtained the vehicle?
- 2) With normal use, but prior to any maintenance performed on your vehicle?
- 3) After maintenance by _____

e. How long did each problem exist? _____**f. Do you still experience performance problems?**

YES / / NO / /

Describe the problem _____

g. Would you say the general performance of your vehicle is:

/ / 1) Better than when you obtained it?

/ / 2) Worse than when you obtained it?

/ / 3) About the same as when you obtained it?

h. What percent of your driving is done:

In the city (stop and go driving)? _____%

On the Highway? _____%

CONSULT EPA FOR ELIGIBILITY IF QUESTION (c) IS ANSWERED

25. Have you ever operated your car so as to cause it to idle for extended periods of time (i.e., for more than 15 minutes)?

NO / / YES / / APPROX. NO OF TIMES _____

IF NO, GO TO NEXT NUMBERED QUESTION.

Describe the circumstances for each case: _____

IF YES, CONSULT EPA FOR ELIGIBILITY.

26. Have you ever used synthetic oil in your vehicle's engine?

NO / / YES / / DON'T KNOW / /

If Yes, how many times?_____, what brand? _____

27. Have you ever received notice that your vehicle was involved in a recall campaign?

NO / / YES / /, approximate date _____

28. a. Describe the recall or give the recall number _____

b. Did you take your vehicle to a dealership for the recall repair?

YES / / NO / /

29. a. Are the original tires, which were on the vehicle when it was first purchased, still on the vehicle?

YES / / NO / / IF YES SKIP TO 29b.

IF NO, are any original tires still on the vehicle now?

YES / / NO / / IF NO, SKIP TO 29b.

Where are the remaining original tires positioned on the vehicle now? (i.e., left-front, right-rear, etc.) _____

What is the date of the most recent tire replacement? _____

IF WITHIN 60 DAYS, CHECK WITH EPA REP.

b. What are the make (i.e. Goodyear), model (i.e. Arriva), size (i.e. P185/70R14). Construction (i.e. Radial or Bias), and tread type (i.e. All Season) of each of the vehicle's tires.

	Make	Model	Size	Construction	Tread Type
Left front	_____	_____	_____	_____	_____

N001c/N002c

2008 VW/Audi

EF#8ADXV03.1374

Control No.N001c/N002cRXXC_____

Right front	_____	_____	_____	_____	_____
Left rear	_____	_____	_____	_____	_____
Right rear	_____	_____	_____	_____	_____

30. Are the original rims, which were on the vehicle when first purchased, still on the vehicle?

YES / / NO / / CONSULT EPA IF NO.

If NO, explain _____

31. Have these tires ever been repaired? (e.g. flat tire repaired with a plug or a foam product, etc.)

YES / / NO / / DON'T KNOW / /

IF YES, DESCRIBE _____

CONSULT EPA IF YES OR DON'T KNOW.

32. a) Have you kept records of the maintenance and repairs performed on your vehicle?

YES / / NO / /

b) To prepare for testing, the glove box and trunk will need to be opened during by URS and EPA personnel. Frequently, records pertaining to the vehicle's maintenance history are found in the vehicle. Will you allow all records (those provided by you and those found) to be reviewed and duplicated?

YES / / NO / /

33. EPA needs to share your maintenance records with the manufacturer to correctly test the vehicle. Do you agree to this?

YES / / NO / /

IF RECORDS ARE AVAILABLE, INFORM OWNER THAT: It is important that they are brought to the lab for review and duplication.

INFORM THE OWNER THAT:

All valuables should be removed from the vehicle (including those in the glove box) prior to bringing the vehicle to the lab.

ALSO INFORM THE OWNER THAT: Due to the location of some systems, the glove box and trunk may need to be opened during maintenance by EPA and/or EPA contractors. Any records pertaining the vehicle's maintenance history found in the vehicle may need to be copied.

34. Has your vehicle received body or glass repair, or been partially or totally repainted?

 Yes No

If yes: what, when, by whom and cost.

WHAT

WHEN _____

BY WHOM _____ COST _____

ACCEPT WHATEVER THE ANSWER.

35. Has your vehicle ever been equipped with rustproofing or undercoating?

_____ Yes _____ No _____ don't know If "yes", when and by whom.

ACCEPT WHATEVER THE ANSWER IS

COMMENTS: _____

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

VIN _____

State of _____ County of _____

I, _____,

being first duly sworn, depose and say:

I am the owner () and/or joint owner () and/or principal driver () of the vehicle described in this questionnaire and have personal knowledge of all matters discussed herein. I have read the responses to the questions stated above, and such responses are true and accurate to the best of my knowledge and belief.

(Signature)_____
(Date)

Subscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly authorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths.

(Seal)

Notary Public_____
(Date)

My commission expires: _____
(Date)

QUALIFICATION OF MAINTENANCE INFORMATION

Please check one of the following if the candidate owner is not the original owner of vehicle

_____.

_____ No, the present owner is not the original owner of the vehicle, but does have knowledge of its maintenance history. The answers on the telephone questionnaire are complete and accurate for the entire maintenance history of the vehicle. The reason for the owner's knowledge of the vehicle's history before its purchase has been noted below.

_____ No, the present owner is not the original owner and does not know the complete maintenance history of the vehicle. The answers to the telephone questionnaire are complete and accurate for the period after the purchase at _____ miles. Oil, filter and spark plug change intervals reported are those known to have occurred after that mileage. Events that occurred prior to that mileage are not included.

N001c/N002c

2008 VW/Audi

EF#8ADXV03.1374

Control No.N001c/N002cRXXC_____

The present mileage on this vehicle is approximately _____.

Signature of Procurement Clerk

IN-USE TESTING
MAINTENANCE BEFORE FTP

VEHICLE CONTROL # _____ VIN _____

VEHICLE MODEL _____ ENGINE FAMILY _____

ENGINE CODE/CALIBRATION _____ TRANSMISSION _____
(Speeds if-M/T)

ODOMETER _____ EVAP FAMILY _____

DATE _____ TIME _____ FUEL
TYPE _____

NOTE: If any of the following items are not applicable to the vehicle being inspected, mark N/A.

1. Record the following information:

- a. Vehicle build date _____
- b. Actual tire sizes Left Front _____ Right Front _____
Left Rear _____ Right Rear _____
- c. GWR _____ Front _____ Rear _____ e. COLOR: Exterior _____
- d. Recall campaign sticker / / YES / / NO Interior _____
- Recall campaign number from sticker _____
- None found _____

2. Inspect the fuel filler neck for the presence of, and/or damage to the unleaded fuel restrictor. Use leaded nozzle to determine if restrictor is operational.

_____ ok
_____ damaged, describe _____
_____ not present

REJECT IF RESTRICTOR IS DAMAGED OR LEADED NOZZLE FITS INTO FUEL FILLER NECK

3. Remove a sample of fuel from the tank and deliver to chem. lab for analysis. _____

4. Determine the axle ratio; make 10 wheel revolutions (applicable to rear-drive only).

(no. of driveshaft revolutions X2) = _____ X 2 = _____

(no. of wheel revolutions) 10

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

5.

Check brakes for excessive drag. Adjust if necessary.

_____ brake drag ok

_____ excessive brake drag (adjusted)

6. Inspect catalyst body, if so equipped, for discoloration, signs of damage, bulges, burn-out or evidence of plug removal.

_____ catalyst ok

other (describe) _____

7. Record the following part numbers.

Catalyst _____ PROM _____

TPS Sensor _____ PCV valve _____

Throttle body _____ ECM (computer) _____

O2 Sensor _____ EGR valve _____

8. a. Record trouble codes MIL or pending codes in vehicle's computer system at beginning of EPA maintenance: _____

b. Readiness Tests

Catalyst _____ Evap System _____

Secondary Air _____ O2 Sensor _____

O2 Sensor Heater _____ EGR system _____

c. At the time during the maintenance, is the MIL on?

9. a. Check cooling system, both radiator and reservoir (if applicable) for coolant and fill if necessary.

Reservoir

_____ level ok

_____ level low _____ coolant added _____ (amount)

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Radiator

_____ level ok
_____ level low _____ coolant added _____ (amount)

b. Check coolant condition, replace if poor.

_____ coolant condition ok
_____ coolant condition poor, (specify) _____
_____ coolant replaced

c. Perform the following pressure checks:

Radiator cap pressure check; pressure applied: (need pressure) bar

_____ no leakage
_____ cap leaks
_____ cap does not release pressure
_____ cap replaced

Radiator pressure check; pressure applied: (need pressure) bar

_____ no leakage
_____ hoses and clamps ok
_____ radiator leaks
_____ leakage repaired

d. freeze protection level _____

TBD spec = -## degrees at ##% mixture adjusted to _____

10. Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose

_____ belt (s) ok
_____ belt (s) adjusted or replaced, specify

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

11. Visually inspect battery for electrolyte level. If level is low add distilled water.

_____ level ok _____ level low _____ Water added

/ / Maintenance free battery (if equipped with an indicator, record observation).

12. Check the power steering fluid and add if necessary.

_____ not applicable _____ level low
_____ level ok _____ fluid added _____ (amount)

13. Visually inspect the vehicle for:

- a. Signs of obvious tampering.

_____ none found _____ yes
Describe _____

- b. Fuel system plug (s). Plug location: _____

_____ all present and intact

_____ plug (s) missing; Describe _____

14. Check all fuel system linkages for free operation. (throttle linkages.)

_____ Free operation

_____ Sticking, binding, etc.; describe _____

_____ Repaired, describe _____

15. Check the condition of the hoses of the following systems for cuts, cracks, or hardening. Check for correct routing of hoses. Check function where indicated, repair if appropriate.

- a. Air cleaner hoses.

_____ correctly routed, ok condition

_____ air cleaner door functional

_____ not ok, specify _____

_____ repaired or replaced, describe _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

b. Spark timing control hoses.

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

c. Crankcase emission control hoses.

_____ correctly routed, ok condition

_____ air moves through PCV system

_____ not ok, specify _____

_____ repaired or replaced, describe _____

d. EGR system hoses.

_____ correctly routed, ok condition

rpm required for movement _____ rpm

_____ not ok, specify _____

_____ repaired or replace, describe _____

e. Evaporative emission system hoses.

_____ correctly routed, ok condition, vent and purge functions OK

_____ no ok, specify _____

_____ repaired or replaced, describe _____

f. Air injection system hoses.

_____ not applicable

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

g. Speed control system.

/ / O.E. system / / non-O.E. system / / not applicable

For O.E. system:

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

For non-O.E. system:

/ / System disconnected at throttle

h. List problems found with any other vacuum hoses.

_____ no other problems found

_____ problems found, specify _____

Action taken _____

16. Start engine Time _____

Engine warm Time _____

(Vehicles equipped with an electric cooling fan should be run until fan operates)

Electric cooling fan operates YES / / NO / / Not equipped / /
with an electric cooling fan

If NO, describe _____

17. Check the automatic transmission fluid level and add if necessary.

_____ not applicable _____ level low

_____ level ok _____ fluid added

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____
MANUFACTURER REPRESENTATIVE _____
EPA REPRESENTATIVE _____

18. Check electrical wiring for proper connections and integrity of wires (idle solenoid, ignition and spark control, engine temperature switches, sensors, etc.).

_____ wiring ok
 _____ not ok, specify _____
 _____ repaired or replaced, describe _____

19. Exhaust System

- a. _____ Drain holes plugged in exhaust system
 _____ Not applicable
- b. Check exhaust system for leaks with engine running.
 _____ No leaks
 _____ System leaks; location _____
 _____ Leaks repaired; describe _____

20. a. Remove all spark plugs. See emission label to determine if plug is O.E. Record the information for the plug(s) removed.

Specified O.E. make and number _____

Specified gap _____

b. Check compression

Compression Spec. please provide

(Always use a fully charged battery to obtain engine speed of 250 rpm or more)

Cylinder No.	Brand	Part No.	Gap	Condition	Compression
1	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____
6	_____	_____	_____	_____	_____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

If actual plugs are non-O.E., are they equivalent to O.E.?

_____ yes _____ no _____ Unknown _____ Not Applicable

Replace ALL plugs with O.E. plugs.

List brand and type of new plugs installed: _____

21. Check valve clearances (if applicable) and adjust if necessary. See VECI label (ONLY IF RECORDS SHOW THAT ROCKER ARM OR LIFTERS HAVE BEEN REMOVED OR REPLACED)

	Spec:				Spec:			
Intake	_____				_____			
		(Other)						
Exhaust	_____							

	1	2	3	4	5	6	7	8
As Received:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____
Set to:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____

22. Check the following to determine whether they are non-O.E. parts and their condition. Replace any found to be excessively worn, or dirty, or fouled, or if parts are not equivalent to O.E. Also, replace parts for which removal necessitates replacement.

	O.E.	NON.-O.E.	NOT APPL.	CONDITION	MAINTENANCE
a. air filter	_____	_____	_____	_____	_____

NOTE: Manufacturer recommended air cleaner filter is: _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

b. oil filter	_____	_____	_____	_____	_____
c. fuel filter	_____	_____	_____	_____	_____
d. ignition wires	_____	_____	_____	_____	_____
e. distributor cap	_____	_____	_____	_____	_____
f. distributor rotor	_____	_____	_____	_____	_____
g. PCV valve	_____	_____	_____	_____	_____
h. PCV filter	_____	_____	_____	_____	_____
i. air conditioner	_____	_____	_____	_____	_____
j. fuel filler cap	_____	_____	_____	_____	_____

k. List below any other non-O.E. parts found in the visual check and their condition and maintenance _____ None Non-O.E. _____

NOTE: Manufacturer recommended air cleaner filter is: What is the recommended air cleaner?

23. a. Check oil level.

_____ oil level ok _____ oil level below ½ qt.

b. Replace oil and filter as recommended by manufacturer:

#W## GF# oil; engine oil filter: _____

_____ oil and oil filter replaced

24. For LDTs only (#24 and #25)

Do only if the truck has over _____ miles or is over _____ months old.

Is the EGR maintenance light on? Yes _____ No _____

If the EGR light is on and the maintenance has not been performed previously by the owner (from the owner's records), perform the following :

25. Verify if O2 maintenance has been performed (from owner's records)

Yes _____ No _____
ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

If yes, when? _____

If O2 maintenance has not been performed, perform the following:

Additional maintenance items to be performed:

26. Start engine Time _____

Engine warm Time _____

27. Preparation for parameter set.

_____ engine at normal operating temperature

_____ accessory equipment off

PERFORM THE FOLLOWING CHECKS AND ADJUSTMENTS ACCORDING TO THE PROCEDURES AND INSTRUCTIONS SPECIFIED ON THE EMISSION LABEL AND/OR THE SHOP MANUAL.

28. Check idle ignition timing and adjust if necessary.

gear setting _____

as received _____ at _____ rpm

spec.* _____ at _____ rpm

set to _____ at _____ rpm

*See VECI label and/or shop manual.

29. Check and adjust, if necessary, the idle speed(s) settings.

Idle speed adjustment plugs present / /yes / / no / / N/A

If idle is out of spec. see VECI label and/or shop manual.

a. Curb idle speed

gear setting _____ observed _____ rpm

spec.* _____ rpm set to _____ rpm

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

*See VECI label and/or shop manual

b. TPS output voltage. (Curb idle speed)

observed _____ vdc

Spec. _____

30. List any comments relevant to the inspection performed on this vehicle:

31. Record Trouble Codes (after M-2)

32. Attach any special procedures to this form.
Special procedures attached? Y / N

Time completed _____

Date _____

Signature of mechanic and observers:

MECHANIC _____

EPA REPRESENTATIVE _____

MANUFACTURER REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

[illegible]

MECHANIC	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE
1. Name		
2. Address		
3. City		
4. State		
5. Zip		
6. Phone		
7. Fax		
8. E-mail		
9. Business Hours		
10. Other		

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 8/31/2010 2:42:15 PM
Subject: test group 8AD XV02.0366
sebastian.berenz@vw.com

Hello Mrs. Sohacki,

I'm just wondering if everything is ok with the 2.0l surveillance testings at your lab.

Please let me know if you need anything from our side or if there are any results on the cars.

Thank you very much.

Sincere regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 9/7/2010 8:50:43 PM
Subject: Data

Hi, Sebastian.

I am having the data scanned for vehicle N148-0092 but the data that I have for N148-0184 is not the final data. I will send that to you as soon as I get it.

Sorry for the confusion.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)


To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/8/2010 12:59:11 PM
Subject: Test data for in-use vehicle N148-0092
[N148RXX0092.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C1SD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2010-0315-002		Vehicle ID: N148RXX-0092					
Test Date: 8/27/2010		MFR Name: AUDI					
Key Start / Hot Soak: 08:52:30 / 09:45		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 029524.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: #VALUE!					
Test Information							
							
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	12.497	34.568	0.953	0.967	3.318		
Ambient	2.819	1.186	0.046	0.048	2.188		
Net Concentration	9.882	33.468	0.910	0.923	1.289	8.491	
Remarks:							
Phase 2							
Sample	2.782	6.391	0.270	0.601	2.107		
Ambient	2.743	0.241	0.048	0.047	2.167		
Net Concentration	0.162	6.161	0.224	0.556	0.037	0.122	
Remarks:							
Phase 3							
Sample	2.988	8.047	0.233	0.820	2.413		
Ambient	2.719	0.253	0.046	0.046	2.159		
Net Concentration	0.436	7.810	0.190	0.777	0.386	0.019	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: This test has particulate results.							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.128	0.875	0.035	379.1	0.019	0.110	23.344
Phase 2	0.003	0.257	0.014	365.2	0.001	0.003	24.317
Phase 3	0.006	0.204	0.007	318.1	0.006	0.000	27.920
Weighted	0.02984	0.37076	0.01661	355.133	0.00605	0.02420	
Fuel Economy							
	Gasoline MPG	Dyno Settings					Dyno #: D329 - FWD
Phase 1	23.32						Inertia: 3875
Phase 2	24.29						EPA Set Co A: 9.42
Phase 3	27.89						EPA Set Co B: 0.3104
							EPA Set Co C: 0.01553
Weighted	24.97						Emissions Bench: Mexa 7200die
v100414 - d329 EPAVDAEm100827082427							Page 1 of 2
							Print Time 27-Aug-2010 13:24

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0315-002

Vehicle ID: N148RXX-0092

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.459	3.142	0.127	1361.2	0.069	0.395	1.079
Phase 2	0.013	0.991	0.054	1405.6	0.003	0.010	
Phase 3	0.020	0.731	0.026	1142.4	0.021	0.001	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.25	29.25	29.25	
Avg Cell Temp (degF)	74.46	74.81	74.36	
Dew Point (degF)	48.89	49.42	48.96	
Specific Humidity (grains/lbm)	52.55	53.60	52.69	
NOx Corr Factor	0.9046	0.9086	0.9051	
CO2 Dilution Factor	13.792	22.258	16.313	
CFV Vmix (scf @68F)	2834.48	4853.97	2825.54	
Total Vmix (scf@68F)	2847.30	4876.93	2838.85	
CVS Flow Rate Avg (scfm)	335.84	334.80	334.85	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.40	869.90	506.31	
Distance (miles)	3.591	3.849	3.591	
Bag Analysis Time (secs)	953.9	148.4	91.1	

I have validated the data in accordance with the requirements of TP 730

Validated By: 21366 Date: 8/27/10

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2010-0315-002

Vehicle ID: N148RXX-0092

Test Information



Test Date: 8/27/2010

MFR Name: AUDI

Key Start: 08:52:30 / 09:45

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp

Shift Schedule: A09980005

Calculation Method: Gasoline

Beginning Odometer: 029524.0 MI

Pretest Remarks:

Drive Schedule: ftp3bag

Soak Period: #VALUE!

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
<u>Phase 1</u>	A	38360	142.8949	142.9352	0.04034	28.737	8.003	
	B	38361	143.4579	143.5051	0.04715	30.294	8.437	
	C	38362	145.9378	145.9776	0.03987	25.834	7.195	

Remarks:

<u>Phase 2</u>	A	38363	142.7412	142.7729	0.03173	20.096	5.222	
	B	38364	142.3086	142.3333	0.02472	15.733	4.088	
	C	38365	143.3684	143.3916	0.02323	14.916	3.876	

Remarks:

<u>Phase 3</u>	A	38366	145.7527	145.7776	0.02485	15.983	4.451	
	B	38367	146.1336	146.1604	0.02686	17.138	4.772	
	C	38368	143.1315	143.1602	0.02863	18.286	5.092	

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.04246	28.289	7.878
Phase 2	0.02656	16.915	4.395
Phase 3	0.02678	17.135	4.771

All filter weights are corrected for buoyancy.

Weighted All Filters:

5.22159

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL	Dyno #: D329 - FWD Inertia: 3875
0.01	1	143.93683	143.94074	0.00391	PASS	EPA Set Co A: 9.42
	2	146.19074	146.19747	0.00673	PASS	EPA Set Co B: 0.3104
						EPA Set Co C: 0.01553

Emissions Bencl Mexa 7200dle

**NVFEL Laboratory Test Data****PARTICULATE****Final Laboratory Test Results**

Test Number: 2010-0315-002

Vehicle ID: N148RXX-0092

WEIGHING CHAMBER

	<u>Timestamp</u>	<u>Buoyancy Factor</u>	<u>Operator (id)</u>	<u>Chamber Temp (°F)</u>	<u>Dew Point (°F)</u>	<u>Barometer (°Hg)</u>	<u>Last Change in Status @ timestamp</u>
Pre-test	8/24/10 16:54	1.0011124	022298	71.9	49.2	29.05	NORM @ 08/21/10 05:01:57
Post-test	8/27/10 12:46	1.0011215	062459	70.9	48.8	29.23	NORM @ 08/26/10 12:35:51

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.25	29.25	29.25	
Avg Cell Temp (degF)	74.46	74.81	74.36	
Dew Point (degF)	48.89	49.42	48.96	
Specific Humidity (grains/lbm)	52.55	53.60	52.69	
NOx Corr Factor	0.9046	0.9086	0.9051	
Dilution Factor	13.79	22.26	16.31	
CFV Vmix (scf @68F)	2834.48	4853.97	2825.54	
Sample Volume A (scf @68F)	3.997	7.700	4.414	
Sample Volume B (scf @68F)	4.432	7.662	4.449	
Sample Volume C (scf @68F)	4.394	7.594	4.445	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	4.274	7.652	4.436	
Total Vmix (scf @68F)	2847.30	4876.93	2838.85	
Phase Time (sec)	506.40	869.90	506.31	
Distance (miles)	3.591	3.849	3.591	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	42.2	41.6	41.5	
PSU Dil Air B (degC)	43.9	43.4	43.3	
PSU Dil Air C (degC)	40.7	40.3	40.4	
PSU Filter A (degC)	45.3	46.9	44.9	
PSU Filter B (degC)	46.8	46.1	45.6	
PSU Filter C (degC)	44.9	44.8	44.8	
PSU Dil Flow A (lpm)	29.9	30.0	29.9	
PSU Dil Flow B (lpm)	29.9	30.0	29.9	
PSU Dil Flow C (lpm)	30.0	29.9	29.9	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

I have validated the data in accordance with the requirements of TP 730


Validated By:

21366

Date:

8/27/10

C13D

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2010-0315-003		Vehicle ID: N148RXX-0092					
Test Date: 8/27/2010		MFR Name: AUDI					
Key Start: 10:17:56		MFR Codes: 640				ADX	
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011					
Calculation Method: Gasoline		Beginning Odometer: 029524.0 MI					
Pretest Remarks:		Drive Schedule: hwfet_hwfet					
Test Information							
							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.289	9.827	0.237	1.097	2.276		
Ambient	2.515	0.157	0.022	0.042	2.051		
Net Concentration	0.980	9.683	0.217	1.058	0.393	0.555	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: <u>This test has particulate results.</u>							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.007	0.132	0.004	226.7	0.003	0.004	39.187
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>			<u>Dyno #:</u> D329 - FWD		
Phase 1	39.15				Inertia: 3875		
					EPA Set Co A: 9.42		
					EPA Set Co B: 0.3104		
					EPA Set Co C: 0.01553		
Emissions Bench: Mexa 7200dle							
v100414 - d329 EPAVDAEm100827094151							
Page 1 of 2							
Print Time 27-Aug-2010 13:07							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0315-003

Vehicle ID: N148RXX-0092

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.068	1.354	0.045	2323.8	0.032	0.038	1.079

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.24			
Avg Cell Temp (degF)	74.42			
Dew Point (degF)	49.26			
Specific Humidity (grains/lbm)	53.30			
NOx Corr Factor	0.9074			
CO2 Dilution Factor	12.205			
CFV Vmix (scf @68F)	4220.78			
Total Vmix (scf@68F)	4240.71			
CVS Flow Rate Avg (scfm)	331.04			

Fan Placement: One Fan - Up - Front
Phase Time (secs) 765.00
Distance (miles) 10.252
Bag Analysis Time (secs) 75.2

I have validated the data in accordance with the requirements of TP 730

Validated By: 21366 Date: 8/27/10

**NVFEL Laboratory Test Data
Final Laboratory Test Results**

PARTICULATE

Test Information



Test Number: 2010-0315-003
 Test Date: 8/27/2010
 Key Start: 10:17:56
 Fuel Container ID: F00023
 Fuel Type: 61 Tier 2 Cert Test Fuel
 Test Procedure: 03 HWFET (hwfetprep_hwfet)
 Calculation Method: Gasoline
 Pretest Remarks:

Vehicle ID: N148RXX-0092
 MFR Name: AUDI
 MFR Codes: 640 ADX
 Config #: 00
 Transmission: AUTO
 Shift Schedule: A09980011
 Beginning Odometer: 029524.0 MI
 Drive Schedule: hwfet_hwfet

All filter weights are corrected for buoyancy.

<u>Particulate</u>	<u>Filter</u>	<u>Filter</u>	<u>Tare</u>	<u>Gross</u>	<u>Net Wt</u>	<u>Total Mass</u>	<u>Total Mass</u>	<u>Filter</u>
	<u>Sampler</u>	<u>No.</u>	<u>(Pre Wt)</u>	<u>(Post Wt)</u>	<u>mg</u>	<u>mg</u>	<u>mg / mi</u>	<u>comment</u>
<u>Phase 1</u>	A	38351	145.7503	145.7757	0.02544	16.096	1.570	
	B	38352	143.4387	143.4735	0.03483	22.071	2.153	
	C	38353	145.2516	145.2797	0.02814	18.266	1.782	

Remarks:

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	<u>Net Wt</u>	<u>Total Mass</u>	<u>Total Mass</u>
	<u>mg</u>	<u>mg</u>	<u>mg / mi</u>
Phase 1	0.02947	18.811	1.835

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	<u>No.</u>	<u>Tare</u>	<u>Gross</u>	<u>Net Wt</u>	<u>Stability Check</u>	<u>Dyno #:</u>
0.01		<u>(Pre Wt)</u>	<u>(Post Wt)</u>	<u>mg</u>	<u>PASS/FAIL</u>	<u>D329 - FWD</u>
	1	146.19085	146.19658	0.00572	PASS	Inertia: 3875
	2	143.93785	143.94235	0.00450	PASS	EPA Set Co A: 9.42
						EPA Set Co B: 0.3104
						EPA Set Co C: 0.01553

Emissions Bench Mexa 7200dle



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2010-0315-003

Vehicle ID: N148RXX-0092

VEHICLE ID: N140RXX-0002							
WEIGHING CHAMBER	Buoyancy	Operator	Chamber Temp	Dew Point	Barometer	Last Change in Status	
Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp	
Pre-test	8/24/10 15:45	1.0011139	000000	71.2	48.8	29.05	NORM @ 08/21/10 05:01:57
Post-test	8/27/10 11:59	1.0011222	062459	70.8	48.2	29.24	NORM @ 08/26/10 12:35:51

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.24			
Avg Cell Temp (degF)	74.42			
Dew Point (degF)	49.26			
Specific Humidity (grains/lbm)	53.30			
NOx Corr Factor	0.9074			
Dilution Factor	12.20			
CFV Vmix (scf @68F)	4220.78			
Sample Volume A (scf @68F)	6.703			
Sample Volume B (scf @68F)	6.693			
Sample Volume C (scf @68F)	6.533			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	6.643			
Total Vmix (scf @68F)	4240.71			
Phase Time (sec)	765.00			
Distance (miles)	10.252			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	41.7			
PSU Dil Air B (degC)	43.4			
PSU Dil Air C (degC)	40.5			
PSU Filter A (degC)	45.6			
PSU Filter B (degC)	47.7			
PSU Filter C (degC)	45.8			
PSU Dil Flow A (lpm)	29.8			
PSU Dil Flow B (lpm)	29.8			
PSU Dil Flow C (lpm)	29.9			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

I have validated the data in accordance with the requirements of TP 730

Validated By: 21366 Date: 8/27/10


To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/8/2010 3:50:06 PM
Subject: Test data for in-use vehicles N148-0184 and N148-0299
[N148RXX-0299.pdf](#)
[N148RXX-0184.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C15D

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2010-0321-002				Vehicle ID: N148RXX-0299			
Test Date: 9/3/2010				MFR Name: AUDI			
Key Start / Hot Soak: 09:33:34 / 09:41				MFR Codes: 640 ADX			
Fuel Container ID: F00023				Config #: 00			
Fuel Type: 61 Tier 2 Cert Test Fuel				Transmission: AUTO			
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)				Shift Schedule: A09980005			
Calculation Method: Gasoline				Beginning Odometer: 044485.0 MI			
Pretest Remarks:				Drive Schedule: ftp3bag			
				Soak Period: 23.6 hours			
Test Information							
							
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	10.694	27.812	1.511	0.972	2.908		
Ambient	2.309	1.106	0.023	0.043	1.947		
Net Concentration	8.553	26.786	1.490	0.932	1.102	7.363	
Remarks: All Filts A & C Excluded							
Phase 2							
Sample	2.360	7.863	0.249	0.607	1.909		
Ambient	2.234	0.050	0.024	0.043	1.952		
Net Concentration	0.227	7.815	0.227	0.566	0.046	0.178	
Remarks:							
Phase 3							
Sample	2.584	8.550	0.209	0.820	2.219		
Ambient	2.266	0.014	0.018	0.042	1.947		
Net Concentration	0.457	8.537	0.192	0.780	0.392	0.034	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: This test has particulate results.							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.109	0.689	0.058	376.7	0.016	0.094	23.515
Phase 2	0.005	0.321	0.014	364.8	0.001	0.004	24.339
Phase 3	0.006	0.219	0.007	314.5	0.006	0.000	28.236
Weighted	0.02657	0.36906	0.02118	353.442	0.00550	0.02143	
Fuel Economy							
	Gasoline MPG	Dyno Settings					
Phase 1	23.49	Dyno #: D329 - FWD					
Phase 2	24.32	Inertia: 3875					
Phase 3	28.21	EPA Set Co A: 8.88					
		EPA Set Co B: 0.4089					
		EPA Set Co C: 0.01407					
Weighted	25.12	Emissions Bench: Mexa 7200dle					

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0321-002

Vehicle ID: N148RXX-0299

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.391	2.471	0.206	1350.7	0.058	0.336	1.079
Phase 2	0.018	1.235	0.054	1406.0	0.004	0.014	
Phase 3	0.021	0.785	0.027	1127.2	0.021	0.002	


Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.77	28.77	28.76	
Avg Cell Temp (degF)	74.75	74.73	74.72	
Dew Point (degF)	49.77	49.59	49.49	
Specific Humidity (grains/lbm)	55.22	54.86	54.67	
NOx Corr Factor	0.9149	0.9135	0.9128	
CO2 Dilution Factor	13.737	22.048	16.329	
CFV Vmix (scf @68F)	2788.64	4779.81	2780.94	
Total Vmix (scf@68F)	2797.60	4794.96	2790.27	
CVS Flow Rate Avg (scfm)	330.34	329.49	329.56	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.50	870.40	506.30	
Distance (miles)	3.586	3.854	3.584	
Bag Analysis Time (secs)	954.8	148.8	91.0	

I have validated the data in accordance with the requirements of TP 730

Validated By: 21366 Date: 9/7/10

C100

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2010-0321-003				Vehicle ID: N148RXX-0299			
	Test Date: 9/3/2010			MFR Name: AUDI			
	Key Start: 11:06:21			MFR Codes: 640		ADX	
	Fuel Container ID: F00023			Config #: 00			
	Fuel Type: 61 Tier 2 Cert Test Fuel			Transmission: AUTO			
	Test Procedure: 03 HWFET (hwfetprep_hwfet)			Shift Schedule: A09980011			
	Calculation Method: Gasoline			Beginning Odometer: 044485.0 MI			
Pretest Remarks:				Drive Schedule: hwfet_hwfet			
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	2.782	9.594	0.267	1.107	2.021		
Ambient	2.314	0.048	0.011	0.042	1.938		
Net Concentration	0.659	9.550	0.257	1.069	0.243	0.397	
Remarks: <u>Filts A & C Excluded</u>							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: <u>This test has particulate results.</u>							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.004	0.128	0.005	225.2	0.002	0.003	39.436
Fuel Economy							
	<u>Gasoline MPG</u>			<u>Dyno Settings</u>		<u>Dyno #:</u> D329 - FWD	
Phase 1	39.40					Inertia: 3875	
						EPA Set Co A: 8.88	
						EPA Set Co B: 0.4089	
						EPA Set Co C: 0.01407	
Emissions Bench: Mexa 7200dle							
v100414 - d329 EPAVDAEm100903102205 Page 1 of 2 Print Time 07-Sep-2010 08:37							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0321-003

Vehicle ID: N148RXX-0299

Results



Phase 1

HC-FID
(grams)

0.045

CO
(grams)

1.314

NOx
(grams)

0.053

CO2
(grams)

2311.5

CH4
(grams)

0.019

NMHC
(grams)

0.027

Meth Response

1.079

Test Conditions

Phase 1

Phase 2

Phase 3

Phase 4

Barometer (inHg)

28.76

Avg Cell Temp (degF)

74.64

Dew Point (degF)

48.93

Specific Humidity (grains/lbm)

53.53

NOx Corr Factor

0.9083

CO2 Dilution Factor

12.091

CFV Vmix (scf @68F)

4161.81

Total Vmix (scf@68F)

4174.55

CVS Flow Rate Avg (scfm)

326.42

Fan Placement: One Fan - Up - Front

Phase Time (secs)

765.00

Distance (miles)

10.262

Bag Analysis Time (secs)

76.2

I have validated the data in accordance with the requirements of TP 730

Validated By:

21366

Date:

9/7/10

CISD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2010-0317-002		Vehicle ID: N148RXX-0184					
Test Date: 8/31/2010		MFR Name: AUDI					
Key Start / Hot Soak: 13:53:24 / 09:48		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 039168.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 22.8 hours					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	19.421	70.384	1.850	0.964	3.682		
Ambient	2.487	1.053	0.011	0.043	1.995		
Net Concentration	17.115	69.408	1.840	0.925	1.832	15.138	
Remarks: <u>Filts A & C Excluded</u>							
Phase 2							
Sample	2.546	10.002	0.216	0.605	1.912		
Ambient	2.421	0.063	0.008	0.043	1.987		
Net Concentration	0.234	9.942	0.208	0.564	0.016	0.218	
Remarks:							
Phase 3							
Sample	2.554	7.044	0.181	0.824	2.105		
Ambient	2.421	0.023	0.008	0.043	1.978		
Net Concentration	0.282	7.022	0.173	0.784	0.249	0.014	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: <u>This test has particulate results.</u>							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.221	1.807	0.072	378.2	0.027	0.195	23.289
Phase 2	0.005	0.415	0.013	370.0	0.000	0.004	23.986
Phase 3	0.004	0.183	0.007	320.6	0.004	0.000	27.706
Weighted	0.04936	0.64015	0.02345	358.128	0.00689	0.04293	
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	23.27	Dyno #: D329 - FWD					
Phase 2	23.96	Inertia: 3875					
Phase 3	27.68	EPA Set Co A: 7.73					
		EPA Set Co B: 0.3185					
		EPA Set Co C: 0.01541					
Weighted	24.73	Emissions Bench: Mexa 7200dle					

0.0446472

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0317-002

Vehicle ID: N148RXX-0184

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.792	6.488	0.257	1358.3	0.098	0.701	1.079
Phase 2	0.019	1.592	0.050	1420.7	0.001	0.017	
Phase 3	0.013	0.655	0.024	1149.4	0.013	0.001	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.17	29.17	29.17	
Avg Cell Temp (degF)	74.49	74.22	74.37	
Dew Point (degF)	49.65	49.62	49.38	
Specific Humidity (grains/lbm)	54.21	54.15	53.67	
NOx Corr Factor	0.9110	0.9108	0.9089	
CO2 Dilution Factor	13.769	22.096	16.238	
CFV Vmix (scf @68F)	2823.46	4839.85	2817.81	
Total Vmix (scf@68F)	2835.29	4857.90	2828.73	
CVS Flow Rate Avg (scfm)	334.53	333.71	333.80	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.40	870.20	506.50	
Distance (miles)	3.591	3.840	3.585	
Bag Analysis Time (secs)	954.3	148.5	92.1	

I have validated the data in accordance with the requirements of TP 730

Validated By: 21366 Date: 9/7/10

C11D

NVFEL Laboratory Test Data Final Laboratory Test Results

CVS

Test Number: 2010-0317-003

Vehicle ID: N148RXX-0184

Test Information

Test Date: 8/31/2010

MFR Name: AUDI

Key Start: 15:15:47

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 039168.0 MI

Pretest Remarks:

Drive Schedule: hwfet_hwfet

**Bag Data****Phase 1**

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.146	10.988	0.202	1.108	2.078	
Ambient	2.448	0.059	0.005	0.042	1.970	
Net Concentration	0.901	10.934	0.198	1.069	0.271	0.608

Remarks: Filts A & C Exlcuded**Phase 2**

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.**Results**

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.006	0.149	0.004	228.4	0.002	0.004	38.887

Fuel Economy**Gasoline MPG**

Phase 1 38.85

Dyno Settings

Dyno #: D329 - FWD

Inertia: 3875

EPA Set Co A: 7.73

EPA Set Co B: 0.3185

EPA Set Co C: 0.01541

Emissions Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0317-003

Vehicle ID: N148RXX-0184

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.062	1.525	0.041	2343.3	0.022	0.042	1.079

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.15			
Avg Cell Temp (degF)	74.62			
Dew Point (degF)	49.16			
Specific Humidity (grains/lbm)	53.26			
NOx Corr Factor	0.9073			
CO2 Dilution Factor	12.076			
CFV Vmix (scf @68F)	4211.25			
Total Vmix (scf@68F)	4229.08			
CVS Flow Rate Avg (scfm)	330.25			

Fan Placement: One Fan - Up - Front
 Phase Time (secs) 765.10
 Distance (miles) 10.260
 Bag Analysis Time (secs) 75.2

I have validated the data in accordance with the requirements of TP 730

Validated By: 21366 Date: 9/7/10

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 9/16/2010 2:12:36 PM
Subject: Meeting CA standards

Hi, Sebastian.

Following up on our discussion from last week, Class N 148 should meet all of the standards to which it was certified, including the CA standards. Because of this we will bring in 2 additional vehicles for testing. I'll notify you a week or so before the vehicles are brought in.

Thank you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Sohacki.Lynn@epamail.epa.gov[Sohacki.Lynn@epamail.epa.gov]
From: "Berenz, Sebastian"
Sent: Thur 9/16/2010 2:21:21 PM
Subject: RE: Meeting CA standards

Hello Lynn,

Thank you for that information.
Let me know when the first car will come in and we will come over.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, September 16, 2010 10:13 AM
To: Berenz, Sebastian
Subject: Meeting CA standards

Hi, Sebastian.

Following up on our discussion from last week, Class N 148 should meet all of the standards to which it was certified, including the CA standards. Because of this we will bring in 2 additional vehicles for testing. I'll notify you a week or so before the vehicles are brought in.

Thank you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/22/2010 12:26:28 PM
Subject: Fw: EPA's Confirmatory Maintenance Form
[N001c-002c TELEPHONE QUESTIONNAIRE.doc](#)
[N001 maintenance before FTP.doc](#)

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you can send me?

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
Date: 08/25/2010 04:20 PM
Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide. I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

**TELEPHONE QUESTIONNAIRE
FOR CONFIRMATORY CLASS:**

VEHICLE CONTROL NUMBER _____ DATE _____

ADMINISTERED BY _____

OWNER'S NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

(CALL NUMBER BELOW THAT IS MARKED WITH AN "X")

TELEPHONE (Home) / ____ / _____ (Business) / ____ / _____

BEST TIME TO CALL _____

"WE ARE AUTHORIZED BY FEDERAL LAW TO COLLECT THIS INFORMATION. WHILE YOU ARE NOT REQUIRED TO RESPOND, YOUR COOPERATION IS NEEDED TO MAKE THE RESULTS OF THIS INVESTIGATION VALID."

DATE OF CONTACT _____ TIME OF CONTACT _____

INDIVIDUAL CONTACTED _____

TO BE COMPLETED _____ DATE AND TIME OF COMPLETION _____

You have been selected from a list of vehicle owners living in the Ann Arbor / Detroit area to participate in a study of vehicle emissions being conducted by the U.S. Environmental Protection Agency.

EPA is authorized by law to conduct this study and to offer incentives to you for your cooperation should you decide to participate. Your participation in this program is strictly voluntary.

The accuracy of the information that you provide is important. The information that you provide will be used by EPA along with emission results for your car to determine whether the automobile manufacturer has complied with clean air standards established by Congress. The test results from your car will not be used by EPA to take action against you. Your cooperation will help EPA's efforts to control air pollution due to motor vehicle emissions.

Public reporting burden for this collection of information is estimated to vary from 1 to 60 minutes per response, with an average of 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Regulatory Information Division, 2136, U.S. Environmental Protection Agency, 401 M St., S.W. Washington, DC, 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

These are the conditions of the program:

We ask that you bring your vehicle into our testing facility where you will receive either a cash incentive for each day we keep your vehicle or a late model loaner car which will have a full tank of gas and unlimited mileage. This vehicle is yours to use without charge for the duration of the testing, which takes approximately three to four weeks. During this time, we will be performing a series of tests on your vehicle to measure vehicle emissions.

-at the time the vehicle is delivered to us for testing, you will be required to sign a form stating that the answers to the questions you will be asked are true and accurate to the best of your personal knowledge and belief.

We will provide you the following incentives for participating in our program:

-If your vehicle is accepted into the program, a full tank of gas and a cash incentive will be awarded. You will receive \$50 per day for each day your vehicle is at NVFEL, and the use of a fully-insured loan car; or \$75 per day for every day your vehicle is at NVFEL in lieu of a loan car. However, if your vehicle is rejected after you bring it to the lab, but before you leave, you will receive a \$20 payment.

The compensation will be based upon whole days, beginning with the day your car arrives. It will end one day after you are notified your vehicle is ready for return.

The maintenance performed on your vehicle will depend on program requirements. You will be given a list of any parts that are replaced.

Are you willing to participate? YES/ / NO/ /

If you are not, may we ask why not? _____

IF RESPONSE IS POSITIVE:

For the purpose of this study, I am going to ask you some questions about your vehicle's maintenance and usage history. You should answer these questions to the best of your knowledge and indicate when you are not sure of something.

FOR "MPF PERSONNEL" ONLY

SENTENCES IN CAPPITAL LETTERS ARE INSTRUCTIONS TO THE CLERK
AND ARE NOT INTENDED TO BE READ TO THE OWNER.

1. a. **What are the model year, transmission type, vehicle identification number and engine family of your vehicle? The engine family can be found on a Vehicle Emission Control Information decal located under the engine hood.**

The engine family should start with the letters 8 A D.

/ / Owner is unable to locate.

/ / Owner located. ENGINE FAMILY _____

/ / Engine family located when vehicle arrived at the Lab.

ENGINE FAMILY _____

ELIMINATE IF ENGINE FAMILY IS NOT 8AD XV03.1374

b. MODEL _____ VEHICLE ID NO. _____

MODEL YEAR _____

TRANSMISSION: AUTOMATIC / / AIR CONDITIONED: YES/ / NO/ /
MANUAL / / ODOMETER MILEAGE: _____

ELIMINATE IF MILEAGE IS UNKNOWN OR OVER 75,000 MILES.

VEHICLES WITH MILEAGE OVER 50,001 SHOULD BE ASSIGNED TO CLASS N002C

- c. **Has the odometer ever not functioned properly?**

YES/ / NO/ /

If yes, approximately how long (months/miles) was it inoperable? _____

CONSULT EPA FOR ELIGIBILITY IF THE RESPONSE IS "YES"

2. a. **When and where did you obtain your vehicle? When** _____
Where _____

- b. **Was the vehicle utilized as a demonstrator prior to you purchase?**

YES/ / NO/ / DO NOT KNOW / /

IF THE ANSWER IS YES, ELIMINATE VEHICLE. CONSULT EPA IF DON'T KNOW

c. What was the mileage at the time of purchase or lease. _____

CONSULT EPA IF MILEAGE IS OVER 400.

d. Are you the original purchaser or lessee of the vehicle?

YES/ / NO/ /

IF OBTAINED NEW, GO TO NEXT NUMBERED QUESTION. IF OBTAINED USED FROM OWNER'S EMPLOYER OR IMMEDIATE FAMILY MEMBER, GO TO (e); OTHERWISE ELIMINATE.

e. Have you been the driver responsible for fueling, repairs and maintenance since the vehicle was new?

YES/ / NO/ /

IF NO, ELIMINATE.

3. Was the vehicle tested in a previous EPA or VW/AUDI emission program?
(REGULARLY REQUIRED STATE RUN EMISSIONS CHECKS ARE NOT INCLUDED)

YES/ / NO/ /

CONSULT EPA FOR ELIGIBILITY IF YES.

	YES	NO
4. Has your vehicle ever been used as a taxi?	_____	_____
5. Has your vehicle ever been used as a commercial delivery vehicle?	_____	_____
6. Has your vehicle ever been used to race in competitive speed events?	_____	_____
7. Have you ever used your vehicle in severe dust conditions?	_____	_____
8. Have you ever used your vehicle to plow snow?	_____	_____
9. Has the fuel pipe restrictor been modified or removed from your vehicle?	_____	_____

ELIMINATE IF ANY POSITIVE RESPONSE TO QUESTIONS 4 THROUGH 9.
(FOR TRUCKS ELIMINATE IF ANY POSITIVE RESPONSE TO 6 THRU 9)

10. Has the vehicle been equipped to permit trailer towing?

YES/ / NO/ /

If yes; how and by whom? _____

11. Has the vehicle been used to pull trailers?

YES/ / NO/ /

ELIMINATE IF RESPONSE IS "YES"

12. a. Is your vehicle equipped with air conditioning?

YES/ / NO/ / IF NO, GO TO 13.

b. Was the air conditioning unit on your vehicle:

1) Factory installed? / /

2) Dealership installed? / /

3) Nondealership installed? / /

4) Do not know? / /

CONSULT EPA IF RESPONSE IS 2), 3), OR 4).

13. Have any of the following special devices been installed on your vehicle other than standard parts made by VW/AUDI?

a. exhaust headers _____

b. camshaft _____

c. ignition equipment _____

d. carburetor or fuel injection components _____

e. modifications to computerized engine control _____

f. other (describe)

g. THIS ITEM IS FOR TRUCKS ONLY

Cap. toolbox, bedliner or other structure or device mounted in the truck bed.

(Describe including the device weight) _____

REMIND THE OWNER TO REMOVE LOOSE ITEMS FROM ALL COMPARTMENTS IN THE

TRUCK BED BEFORE BRINGING IT IN.

CONSULT EPA IF THERE IS A POSITIVE RESPONSE FOR ANY OF THE ABOVE ITEMS.

14. a. How many times per year do you drive on unpaved roads? _____

b. What percent of your mileage do you estimate you drive on unpaved roads? _____

ELIMINATE IF OVER 5%. (DELETE THIS QUESTION FOR TRUCK CLASSES)

15. Have you ever used any fuel other than that recommended by the manufacturer in your vehicle? (ex. leaded, E85)

YES / / NO / /

If Yes, what have you used? _____

How often have you used it? _____

When was the last time you used it? _____

IF YES, CONSULT EPA FOR ELIGIBILITY.

16. Have there been any problems with the catalytic converter?

YES/ / NO/ / DON'T KNOW / /

If yes, describe _____

CONSULT EPA IF YES OR DON'T KNOW.

17. Have any settings been misadjusted or have the emission control system components been altered, modified or disconnected?

YES/ / NO/ /

If yes, explain what, when, and where.

WHAT _____

WHEN _____

WHERE _____

IF YES, CONSULT EPA FOR ELIGIBILITY.

18. a. Has your vehicle ever overheated?

- 1) Never
- 2) One Time
- 3) More than One Time

ELIMINATE IF VEHICLE HAS OVERHEATED MORE THAN ONCE. IF VEHICLE HAS OVERHEATED ONCE, OBTAIN RESPONSES TO b,c AND d, THEN CONSULT EPA.

b. How did you know the vehicle overheated?

- 1) Temperature Gauge or Light
- 2) Steam From Under the Hood
- 3) Other _____

c. How far was the vehicle driven in an overheated condition?

- 1) Less than a mile
- 2) 1-3 miles
- 3) Greater than 3 miles

CONSULT EPA IF 1 OR 2; ELIMINATE IF 3.

d. When and where did vehicle overheat and what did you do?

19. a. Has your vehicle ever been involved in an accident?

YES/ / NO/ /

IF YES COMPLETE QUESTIONS (b), (c), (d), and (e).

b. As a result of an accident has your vehicle ever had damage in any of the following areas?

Yes No

- | | | |
|---|-------|-------|
| 1) Engine..... | _____ | _____ |
| 2) Cooling System..... | _____ | _____ |
| 3) Carburetor or Fuel Injection System..... | _____ | _____ |
| 4) Exhaust System..... | _____ | _____ |
| 5) Fuel Tank..... | _____ | _____ |
| 6) Ignition System..... | _____ | _____ |
| 7) Emission Control System..... | _____ | _____ |
| 8) Other (Specify)..... | _____ | _____ |

c. If “yes” for any of 1 to 8 describe the damage and the circumstances of the accident.

IF THERE WAS DEFINITE DAMAGE TO ANY OF THESE COMPONENTS OR IF THE OWNER IS UNSURE WHETHER THE ABOVE COMPONENTS WERE DAMAGED, CONSULT EPA.

d. Has the damage been repaired?

YES/ / NO/ /

e. If yes; what, when, by whom and at what cost?

What _____

When _____

Who _____ Cost _____

20. a. Has your “Check Engine” light (Malfunction Indicator Light) ever been on during vehicle operation at any time other than start up?

YES/ / NO/ / IF YES, GO TO b and c.

b. Describe the circumstances of each occurrence: _____

c. How many miles was the vehicle driven with the light on before repairs were made? (If more than one instance, list for each.)

ELIMINATE IF DRIVEN MORE THAN 1,000 MILES IN ANY ONE INSTANCE.

d. What was done to repair the vehicle after the light came on?

(IF MORE THAN ONE INSTANCE, LIST FOR EACH.) _____

IF REPAIRS WERE MADE WITHIN 1,000 MILES, CONSULT EPA FOR ELIGIBILITY.

21. a. When were the oil and oil filter first changed after obtaining the vehicle?

Date _____ Mileage _____

CONTACT EPA IF MORE THAN 10,500 MILES OR 13 MONTHS

b. When were the oil and oil filter changed the second time after obtaining the vehicle?

Date _____ Mileage _____

CONTACT EPA IF THE INTERVAL IS MORE THEN 11,500 MILES AFTER THE FIRST TIME.

c. IF OWNER HAS RECORDS SHOWING DATES AND MILEAGE OF OIL AND FILTER CHANGES, OBTAIN THE FOLLOWING INFORMATION:

How many oil and oil filter changes have you had?

(IF FILTER CHANGE WAS PERFORMED, INDICATE BY CHECK MARK IN PROVIDED SPACE).

DATE _____ OIL CHANGE / / DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / / MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

DATE _____ OIL CHANGE / /

DATE _____ OIL CHANGE / /

MILEAGE _____ OIL FILTER / /

MILEAGE _____ OIL FILTER / /

PERFORMED BY _____

PERFORMED BY _____

d. IF OWNER DOES NOT HAVE SERVICE RECORDS SHOWING DATES AND MILEAGE OF OIL AND FILTER CHANGES, BUT CHANGES ARE BASED ON TIME AND/OR MILEAGE INTERVALS, COMPLETE THE FOLLOWING:

- 1) At what interval is oil changed: time _____ miles _____
- 2) At what interval is filter changed; time _____ miles _____
- 3) Is oil / oil-filter changed in response to service-reminder lamp? _____
- 4) Who performs this work? _____

e. What is the longest period by months and mileage your vehicle has gone between oil changes? (SEE c.AND d. ABOVE TO VERIFY AND/OR CALCULATE THIS ANSWER.)

MONTHS _____ MILES _____
CONTACT EPA IF EITHER IS MORE THAN 11,500 MILES OR 14 MONTHS.

f. What is the longest period by months and mileage your vehicle has gone between oil filter changes?

(SEE c AND d ABOVE TO VERIFY AND/OR CALCULATE THIS ANSWER.)

MONTHS _____ MILES _____

CONTACT EPA IF EITHER MORE THAN 11,500 MILES OF 14 MONTHS**g. What was the approximate date of your last oil and oil filter change?**OIL CHANGE: DATE _____ MILEAGE _____

PERFORMED BY _____

OIL FILTER CHANGE: DATE _____ MILEAGE _____

PERFORMED BY _____

22. a. IF OWNER ALSO HAS RECORDS SHOWING DATES AND MILEAGE OF TUNE-UPS, OBTAIN THE FOLLOWING INFORMATION.

How many times has your vehicle received a routine tune-up maintenance such as: ignition (or spark) timing adjustment, fuel system adjustment and spark plug replacement? If possible, please state what was performed during the tune-up.

DATE _____ / / IGNITION TIMING / / FUEL SYSTEM* ADJUSTMENT

MILEAGE _____ / / SPARK PLUG REPLACEMENT

PERFORMED BY _____

DATE _____ / / IGNITION TIMING / / FUEL SYSTEM* ADJUSTMENT

MILEAGE _____ / / SPARK PLUG REPLACEMENT

PERFORMED BY _____

*Carburetor or Fuel Injection System

CONTACT EPA IF SPARK PLUG CHANGE INTERVAL WAS EVER GREATER THAN 40,600 MILES.**b. IF OWNER DOES NOT HAVE RECORDS OF TUNE-UPS, BUT TUNE-UPS ARE PERFORMED BASED ON TIME/MILEAGE INTERVALS, COMPLETE THE FOLLOWING:**

- 1) At what interval is tune-up maintenance performed?

Months _____ Miles _____

- 2) What is the longest interval between spark plug changes?

Months _____ Miles _____

- 3) Who performs this work? _____

CONTACT EPA IF SPARK PLUG CHANGE INTERVAL WAS EVER GREATER THAN 40,600 MILES.

c. What other scheduled maintenance has been performed?

Description _____

Date _____ Mileage _____

Performed by _____

Description _____

Date _____ Mileage _____

Performed by _____

Description _____

Date _____ Mileage _____

Performed by _____

d. What is the largest amount of money you have ever spent for maintenance or repairs to your car?

_____ dollars _____ don't know

WHAT _____

WHY _____

WHEN _____

WHERE _____

23. a. Has any unscheduled maintenance (i.e., maintenance to correct a problem) been performed on your vehicle in the following areas?

	<u>YES</u>	<u>NO</u>
Engine	_____	_____
Fuel injection	_____	_____
Transmission, drive shaft, axle	_____	_____
Exhaust system	_____	_____
Ignition system/Electrical system	_____	_____
Cooling system	_____	_____
Fuel tank	_____	_____
Emission control system	_____	_____
Oxygen Sensor	_____	_____
Computerized engine system	_____	_____
Other	_____	_____

b. If the answer to any of the above items is yes, please describe what, why, when, and where.

WHAT _____

WHY _____

WHEN _____

WHERE _____

WHAT _____

WHY _____

WHEN _____

WHERE _____

WHAT _____

WHY _____

WHEN _____

WHERE _____

CONSULT EPA FOR ELIGIBILITY IF QUESTION (b) IS ANSWERED

**24. a. Have you had any performance or drivability problems with your vehicle?
(Including problems described in question 23.)**

YES / / NO / /

IF NO, GO TO NEXT NUMBERED QUESTION.

If yes, describe: _____

b. Would the problems you described fall into any of the following categories?

	<u>Never</u>	<u>Occasionally</u>	<u>Frequently</u>
1) Hard Starting	_____	_____	_____
2) Poor Cold Performance	_____	_____	_____
3) Poor Acceleration	_____	_____	_____
4) Hesitation	_____	_____	_____
5) Stalling	_____	_____	_____
6) Dieseling (after run)	_____	_____	_____
7) Back firing	_____	_____	_____
8) Stumbling	_____	_____	_____
9) Engine Knock	_____	_____	_____
10) Rough Idle	_____	_____	_____
11) Engine Misfiring	_____	_____	_____
12) Other	_____	_____	_____

Describe other problems? _____

c. What was done to eliminate performance problems(s)?

WHAT _____

WHEN _____

WHERE _____

WHAT _____

WHEN _____

WHERE _____

d. When did the problems you mentioned above occur?

- 1) When you first obtained the vehicle?
- 2) With normal use, but prior to any maintenance performed on your vehicle?
- 3) After maintenance by _____

e. How long did each problem exist? _____**f. Do you still experience performance problems?**

YES / / NO / /

Describe the problem _____

g. Would you say the general performance of your vehicle is:

- / / 1) Better than when you obtained it?
- / / 2) Worse than when you obtained it?
- / / 3) About the same as when you obtained it?

h. What percent of your driving is done:

In the city (stop and go driving)? _____%

On the Highway? _____%

CONSULT EPA FOR ELIGIBILITY IF QUESTION (c) IS ANSWERED

25. Have you ever operated your car so as to cause it to idle for extended periods of time (i.e., for more than 15 minutes)?

NO / / YES / / APPROX. NO OF TIMES _____

IF NO, GO TO NEXT NUMBERED QUESTION.

Describe the circumstances for each case: _____

IF YES, CONSULT EPA FOR ELIGIBILITY.

26. Have you ever used synthetic oil in your vehicle's engine?

NO / / YES / / DON'T KNOW / /

If Yes, how many times?_____, what brand? _____

27. Have you ever received notice that your vehicle was involved in a recall campaign?

NO / / YES / /, approximate date _____

28. a. Describe the recall or give the recall number _____

b. Did you take your vehicle to a dealership for the recall repair?

YES / / NO / /

29. a. Are the original tires, which were on the vehicle when it was first purchased, still on the vehicle?

YES / / NO / / IF YES SKIP TO 29b.

IF NO, are any original tires still on the vehicle now?

YES / / NO / / IF NO, SKIP TO 29b.

Where are the remaining original tires positioned on the vehicle now? (i.e., left-front, right-rear, etc.) _____

What is the date of the most recent tire replacement? _____

IF WITHIN 60 DAYS, CHECK WITH EPA REP.

b. What are the make (i.e. Goodyear), model (i.e. Arriva), size (i.e. P185/70R14). Construction (i.e. Radial or Bias), and tread type (i.e. All Season) of each of the vehicle's tires.

	Make	Model	Size	Construction	Tread Type
Left front	_____	_____	_____	_____	_____

N001c/N002c

2008 VW/Audi

EF#8ADXV03.1374

Control No.N001c/N002cRXXC_____

Right front	_____	_____	_____	_____	_____
Left rear	_____	_____	_____	_____	_____
Right rear	_____	_____	_____	_____	_____

30. Are the original rims, which were on the vehicle when first purchased, still on the vehicle?

YES / / NO / / CONSULT EPA IF NO.

If NO, explain _____

31. Have these tires ever been repaired? (e.g. flat tire repaired with a plug or a foam product, etc.)

YES / / NO / / DON'T KNOW / /

IF YES, DESCRIBE _____

CONSULT EPA IF YES OR DON'T KNOW.

32. a) Have you kept records of the maintenance and repairs performed on your vehicle?

YES / / NO / /

b) To prepare for testing, the glove box and trunk will need to be opened during by URS and EPA personnel. Frequently, records pertaining to the vehicle's maintenance history are found in the vehicle. Will you allow all records (those provided by you and those found) to be reviewed and duplicated?

YES / / NO / /

33. EPA needs to share your maintenance records with the manufacturer to correctly test the vehicle. Do you agree to this?

YES / / NO / /

IF RECORDS ARE AVAILABLE, INFORM OWNER THAT: It is important that they are brought to the lab for review and duplication.

INFORM THE OWNER THAT:

All valuables should be removed from the vehicle (including those in the glove box) prior to bringing the vehicle to the lab.

ALSO INFORM THE OWNER THAT: Due to the location of some systems, the glove box and trunk may need to be opened during maintenance by EPA and/or EPA contractors. Any records pertaining the vehicle's maintenance history found in the vehicle may need to be copied.

34. Has your vehicle received body or glass repair, or been partially or totally repainted?

Yes No

If yes: what, when, by whom and cost.

WHAT

WHEN

	<u>BY WHOM</u>	COST
--	----------------	------

ACCEPT WHATEVER THE ANSWER.

35. Has your vehicle ever been equipped with rustproofing or undercoating?

Yes	No	don't know	If "yes", when and by whom.
-----	----	------------	-----------------------------

ACCEPT WHATEVER THE ANSWER IS

COMMENTS:

[illegible]

VIN _____

State of _____ County of _____

I, _____,

being first duly sworn, depose and say:

I am the owner () and/or joint owner () and/or principal driver () of the vehicle described in this questionnaire and have personal knowledge of all matters discussed herein. I have read the responses to the questions stated above, and such responses are true and accurate to the best of my knowledge and belief.

(Signature)_____
(Date)

Subscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly authorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths.

(Seal)

Notary Public_____
(Date)

My commission expires: _____
(Date)

QUALIFICATION OF MAINTENANCE INFORMATION

Please check one of the following if the candidate owner is not the original owner of vehicle

_____.

_____ No, the present owner is not the original owner of the vehicle, but does have knowledge of its maintenance history. The answers on the telephone questionnaire are complete and accurate for the entire maintenance history of the vehicle. The reason for the owner's knowledge of the vehicle's history before its purchase has been noted below.

_____ No, the present owner is not the original owner and does not know the complete maintenance history of the vehicle. The answers to the telephone questionnaire are complete and accurate for the period after the purchase at _____ miles. Oil, filter and spark plug change intervals reported are those known to have occurred after that mileage. Events that occurred prior to that mileage are not included.

N001c/N002c

2008 VW/Audi

EF#8ADXV03.1374

Control No.N001c/N002cRXXC_____

The present mileage on this vehicle is approximately _____.

Signature of Procurement Clerk

IN-USE TESTING
MAINTENANCE BEFORE FTP

VEHICLE CONTROL # _____ VIN _____

VEHICLE MODEL _____ ENGINE FAMILY _____

ENGINE CODE/CALIBRATION _____ TRANSMISSION _____
(Speeds if-M/T)

ODOMETER _____ EVAP FAMILY _____

DATE _____ TIME _____ FUEL TYPE _____

NOTE: If any of the following items are not applicable to the vehicle being inspected, mark N/A.

1. Record the following information:

- a. Vehicle build date _____
- b. Actual tire sizes Left Front _____ Right Front _____
Left Rear _____ Right Rear _____
- c. GWR _____ Front _____ Rear _____ e. COLOR: Exterior _____
- d. Recall campaign sticker / / YES / / NO Interior _____
- Recall campaign number from sticker _____
- None found _____

2. Inspect the fuel filler neck for the presence of, and/or damage to the unleaded fuel restrictor. Use leaded nozzle to determine if restrictor is operational.

_____ ok
_____ damaged, describe _____
_____ not present

REJECT IF RESTRICTOR IS DAMAGED OR LEADED NOZZLE FITS INTO FUEL FILLER NECK

3. Remove a sample of fuel from the tank and deliver to chem. lab for analysis. _____

4. Determine the axle ratio; make 10 wheel revolutions (applicable to rear-drive only).

(no. of driveshaft revolutions X2) = _____ X 2 = _____

(no. of wheel revolutions) 10

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

5.

Check brakes for excessive drag. Adjust if necessary.

_____ brake drag ok

_____ excessive brake drag (adjusted)

6. Inspect catalyst body, if so equipped, for discoloration, signs of damage, bulges, burn-out or evidence of plug removal.

_____ catalyst ok

other (describe) _____

7. Record the following part numbers.

Catalyst _____ PROM _____

TPS Sensor _____ PCV valve _____

Throttle body _____ ECM (computer) _____

O2 Sensor _____ EGR valve _____

8. a. Record trouble codes MIL or pending codes in vehicle's computer system at beginning of EPA maintenance: _____

b. Readiness Tests

Catalyst _____ Evap System _____

Secondary Air _____ O2 Sensor _____

O2 Sensor Heater _____ EGR system _____

c. At the time during the maintenance, is the MIL on?

9. a. Check cooling system, both radiator and reservoir (if applicable) for coolant and fill if necessary.

Reservoir

_____ level ok

_____ level low _____ coolant added _____ (amount)

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Radiator

_____ level ok
_____ level low _____ coolant added _____ (amount)

b. Check coolant condition, replace if poor.

_____ coolant condition ok
_____ coolant condition poor, (specify) _____
_____ coolant replaced

c. Perform the following pressure checks:

Radiator cap pressure check; pressure applied: (need pressure) bar

_____ no leakage
_____ cap leaks
_____ cap does not release pressure
_____ cap replaced

Radiator pressure check; pressure applied: (need pressure) bar

_____ no leakage
_____ hoses and clamps ok
_____ radiator leaks
_____ leakage repaired

d. freeze protection level _____

TBD spec = -## degrees at ##% mixture adjusted to _____

10. Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose

_____ belt (s) ok
_____ belt (s) adjusted or replaced, specify

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

11. Visually inspect battery for electrolyte level. If level is low add distilled water.

_____ level ok _____ level low _____ Water added

/ / Maintenance free battery (if equipped with an indicator, record observation).

12. Check the power steering fluid and add if necessary.

_____ not applicable _____ level low
_____ level ok _____ fluid added _____ (amount)

13. Visually inspect the vehicle for:

- a. Signs of obvious tampering.

_____ none found _____ yes
Describe _____

- b. Fuel system plug (s). Plug location: _____

_____ all present and intact

_____ plug (s) missing; Describe _____

14. Check all fuel system linkages for free operation. (throttle linkages.)

_____ Free operation

_____ Sticking, binding, etc.; describe _____

_____ Repaired, describe _____

15. Check the condition of the hoses of the following systems for cuts, cracks, or hardening. Check for correct routing of hoses. Check function where indicated, repair if appropriate.

- a. Air cleaner hoses.

_____ correctly routed, ok condition

_____ air cleaner door functional

_____ not ok, specify _____

_____ repaired or replaced, describe _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

b. Spark timing control hoses.

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

c. Crankcase emission control hoses.

_____ correctly routed, ok condition

_____ air moves through PCV system

_____ not ok, specify _____

_____ repaired or replaced, describe _____

d. EGR system hoses.

_____ correctly routed, ok condition

rpm required for movement _____ rpm

_____ not ok, specify _____

_____ repaired or replace, describe _____

e. Evaporative emission system hoses.

_____ correctly routed, ok condition, vent and purge functions OK

_____ no ok, specify _____

_____ repaired or replaced, describe _____

f. Air injection system hoses.

_____ not applicable

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

/ / O.E. system / / non-O.E. system / / not applicable

For O.E. system:

_____ correctly routed, ok condition

_____ not ok, specify

_____ repaired or replaced, describe

For non-O.E. system:

/ / System disconnected at throttle

h. List problems found with any other vacuum hoses.

_____ no other problems found

_____ problems found, specify

Action taken

16. Start engine

Time _____

Engine warm

Time _____

(Vehicles equipped with an electric cooling fan should be run until fan operates)

Electric cooling fan operates YES / / NO / / Not equipped / /
with an electric cooling fan

If NO, describe

17. Check the automatic transmission fluid level and add if necessary.

_____ not applicable

_____ level low

level ok

fluid added

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC

MANUFACTURER REPRESENTATIVE

EPA REPRESENTATIVE

18. Check electrical wiring for proper connections and integrity of wires (idle solenoid, ignition and spark control, engine temperature switches, sensors, etc.).

_____ wiring ok
 _____ not ok, specify _____
 _____ repaired or replaced, describe _____

19. Exhaust System

- a. _____ Drain holes plugged in exhaust system
 _____ Not applicable
- b. Check exhaust system for leaks with engine running.
 _____ No leaks
 _____ System leaks; location _____
 _____ Leaks repaired; describe _____

20. a. Remove all spark plugs. See emission label to determine if plug is O.E. Record the information for the plug(s) removed.

Specified O.E. make and number _____

Specified gap _____

b. Check compression

Compression Spec. please provide

(Always use a fully charged battery to obtain engine speed of 250 rpm or more)

Cylinder No.	Brand	Part No.	Gap	Condition	Compression
1	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____
6	_____	_____	_____	_____	_____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

If actual plugs are non-O.E., are they equivalent to O.E.?

_____ yes _____ no _____ Unknown _____ Not Applicable

Replace ALL plugs with O.E. plugs.

List brand and type of new plugs installed: _____

21. Check valve clearances (if applicable) and adjust if necessary. See VECI label (ONLY IF RECORDS SHOW THAT ROCKER ARM OR LIFTERS HAVE BEEN REMOVED OR REPLACED)

	Spec:				Spec:			
Intake	_____				_____			
		(Other)						
Exhaust	_____							

	1	2	3	4	5	6	7	8
As Received:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____
Set to:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____

22. Check the following to determine whether they are non-O.E. parts and their condition. Replace any found to be excessively worn, or dirty, or fouled, or if parts are not equivalent to O.E. Also, replace parts for which removal necessitates replacement.

	O.E.	NON.-O.E.	NOT APPL.	CONDITION	MAINTENANCE
a. air filter	_____	_____	_____	_____	_____

NOTE: Manufacturer recommended air cleaner filter is: _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC	_____/_____ MANUFACTURER REPRESENTATIVE	_____/_____ EPA REPRESENTATIVE
----------	--	-----------------------------------

b. oil filter	_____	_____	_____	_____	_____
c. fuel filter	_____	_____	_____	_____	_____
d. ignition wires	_____	_____	_____	_____	_____
e. distributor cap	_____	_____	_____	_____	_____
f. distributor rotor	_____	_____	_____	_____	_____
g. PCV valve	_____	_____	_____	_____	_____
h. PCV filter	_____	_____	_____	_____	_____
i. air conditioner	_____	_____	_____	_____	_____
j. fuel filler cap	_____	_____	_____	_____	_____

k. List below any other non-O.E. parts found in the visual check and their condition and maintenance _____ None Non-O.E. _____

NOTE: Manufacturer recommended air cleaner filter is: What is the recommended air cleaner?

23. a. Check oil level.

_____ oil level ok _____ oil level below ½ qt.

b. Replace oil and filter as recommended by manufacturer:

#W## GF# oil; engine oil filter: _____

_____ oil and oil filter replaced

24. For LDTs only (#24 and #25)

Do only if the truck has over _____ miles or is over _____ months old.

Is the EGR maintenance light on? Yes _____ No _____

If the EGR light is on and the maintenance has not been performed previously by the owner (from the owner's records), perform the following :

25. Verify if O2 maintenance has been performed (from owner's records)

Yes _____ No _____
ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

If yes, when? _____

If O2 maintenance has not been performed, perform the following:

Additional maintenance items to be performed:

26. Start engine Time _____

Engine warm Time _____

27. Preparation for parameter set.

_____ engine at normal operating temperature

_____ accessory equipment off

PERFORM THE FOLLOWING CHECKS AND ADJUSTMENTS ACCORDING TO THE PROCEDURES AND INSTRUCTIONS SPECIFIED ON THE EMISSION LABEL AND/OR THE SHOP MANUAL.

28. Check idle ignition timing and adjust if necessary.

gear setting _____

as received _____ at _____ rpm

spec.* _____ at _____ rpm

set to _____ at _____ rpm

*See VECI label and/or shop manual.

29. Check and adjust, if necessary, the idle speed(s) settings.

Idle speed adjustment plugs present / /yes / / no / / N/A

If idle is out of spec. see VECI label and/or shop manual.

a. Curb idle speed

gear setting _____ observed _____ rpm

spec.* _____ rpm set to _____ rpm

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

*See VECI label and/or shop manual

b. TPS output voltage. (Curb idle speed)

observed _____ vdc

Spec. _____

30. List any comments relevant to the inspection performed on this vehicle:

31. Record Trouble Codes (after M-2)

32. Attach any special procedures to this form.
Special procedures attached? Y / N

Time completed _____

Date _____

Signature of mechanic and observers:

MECHANIC _____

EPA REPRESENTATIVE _____

MANUFACTURER REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

[illegible]

MECHANIC	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE
1. Name		
2. Address		
3. City		
4. State		
5. Zip		
6. Phone		
7. Fax		
8. E-mail		
9. Signature		
10. Title		
11. Date		

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 9/22/2010 1:35:11 PM
Subject: RE: EPA's Confirmatory Maintenance Form
[N001 maintenance before FTP.doc](#)
[FilterReplaceProc.pdf](#)
[FluidCapacity.pdf](#)
[OilFilterAssem.pdf](#)
[OilLevelCheck.pdf](#)

Hello Lynn,

Attached you will find your questionnaire with my added details.
Further I have attached a description for the oil change, specifications for the oil and coolant and how to change the filter.

Let me know if you have any questions on this or need something additionally.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, September 22, 2010 8:26 AM
To: Berenz, Sebastian
Subject: Fw: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you

can send me?

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
Date: 08/25/2010 04:20 PM
Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide.
I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: N001c-002c TELEPHONE QUESTIONNAIRE.doc)(See attached file: N001 maintenance before FTP.doc)

IN-USE TESTING
MAINTENANCE BEFORE FTP

VEHICLE CONTROL # _____ VIN _____

VEHICLE MODEL _____ ENGINE FAMILY _____

ENGINE CODE/CALIBRATION _____ TRANSMISSION _____
(Speeds if-M/T)

ODOMETER _____ EVAP FAMILY _____

DATE _____ TIME _____ FUEL TYPE _____

NOTE: If any of the following items are not applicable to the vehicle being inspected, mark N/A.

1. Record the following information:

- a. Vehicle build date _____
- b. Actual tire sizes Left Front _____ Right Front _____
Left Rear _____ Right Rear _____
- c. GWR _____ Front _____ Rear _____ e. COLOR: Exterior _____
- d. Recall campaign sticker / / YES / / NO Interior _____
- Recall campaign number from sticker _____
- None found _____

2. Inspect the fuel filler neck for the presence of, and/or damage to the unleaded fuel restrictor. Use leaded nozzle to determine if restrictor is operational.

_____ ok
_____ damaged, describe _____
_____ not present

REJECT IF RESTRICTOR IS DAMAGED OR LEADED NOZZLE FITS INTO FUEL FILLER NECK

3. Remove a sample of fuel from the tank and deliver to chem. lab for analysis. _____

4. Determine the axle ratio; make 10 wheel revolutions (applicable to rear-drive only).

(no. of driveshaft revolutions X2) = _____ X 2 = _____

(no. of wheel revolutions) 10

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

5.

Check brakes for excessive drag. Adjust if necessary.

_____ brake drag ok

_____ excessive brake drag (adjusted)

6. Inspect catalyst body, if so equipped, for discoloration, signs of damage, bulges, burn-out or evidence of plug removal.

_____ catalyst ok

other (describe) _____

7. Record the following part numbers.

Catalyst _____ PROM _____

TPS Sensor _____ PCV valve _____

Throttle body _____ ECM (computer) _____

O2 Sensor _____ EGR valve _____

8. a. Record trouble codes MIL or pending codes in vehicle's computer system at beginning of EPA maintenance: _____

b. Readiness Tests

Catalyst _____ Evap System _____

Secondary Air _____ O2 Sensor _____

O2 Sensor Heater _____ EGR system _____

c. At the time during the maintenance, is the MIL on?

9. a. Check cooling system, both radiator and reservoir (if applicable) for coolant and fill if necessary.

Reservoir

_____ level ok

_____ level low _____ coolant added _____ (amount)

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Radiator

_____ level ok
_____ level low _____ coolant added _____ (amount)

b. Check coolant condition, replace if poor.

_____ coolant condition ok
_____ coolant condition poor, (specify) _____
_____ coolant replaced

c. Perform the following pressure checks:

Radiator cap pressure check; pressure applied: (need pressure) bar

VW: **1.4... 1.6 bar**
 20.3...23.2 psi

_____ no leakage
_____ cap leaks
_____ cap does not release pressure
_____ cap replaced

Radiator pressure check; pressure applied: (need pressure) bar

VW: **1.0 bar**
 14.5 psi

_____ no leakage
_____ hoses and clamps ok
_____ radiator leaks
_____ leakage repaired

d. freeze protection level _____

TBD spec = -## degrees at ##% mixture adjusted to _____

VW:

Coolant (40 %) and water (60 %) for temperature down to -25 °C / -13F.

Coolant (50 %) and water (50 %) for temperature down to -35 °C / -31F.

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Coolant (60 %) and water (40 %) for temperature down to -40 °C/ -40F.

10. Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose

_____ belt (s) ok

_____ belt (s) adjusted or replaced, specify

11. Visually inspect battery for electrolyte level. If level is low add distilled water.

_____ level ok _____ level low _____ Water added

/ / Maintenance free battery (if equipped with an indicator, record observation).

12. Check the power steering fluid and add if necessary.

_____ not applicable

_____ level ok

_____ level low

_____ fluid added _____ (amount)

13. Visually inspect the vehicle for:

- a. Signs of obvious tampering.

_____ none found

_____ yes

Describe _____

- b. Fuel system plug (s). Plug location: _____

_____ all present and intact

_____ plug (s) missing; Describe _____

14. Check all fuel system linkages for free operation. (throttle linkages.)

_____ Free operation

_____ Sticking, binding, etc.; describe

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC

MANUFACTURER REPRESENTATIVE

EPA REPRESENTATIVE

____ Repaired, describe _____

15. Check the condition of the hoses of the following systems for cuts, cracks, or hardening. Check for correct routing of hoses. Check function where indicated, repair if appropriate.

a. Air cleaner hoses.

_____ correctly routed, ok condition

_____ air cleaner door functional

_____ not ok, specify _____

_____ repaired or replaced, describe _____

b. Spark timing control hoses.

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

c. Crankcase emission control hoses.

_____ correctly routed, ok condition

_____ air moves through PCV system

_____ not ok, specify _____

_____ repaired or replaced, describe _____

d. EGR system hoses.

_____ correctly routed, ok condition

rpm required for movement _____ rpm

_____ not ok, specify _____

_____ repaired or replace, describe _____

e. Evaporative emission system hoses.

_____ correctly routed, ok condition, vent and purge functions OK

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

_____ no ok, specify _____

_____ repaired or replaced, describe _____

f. Air injection system hoses.

_____ not applicable

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

g. Speed control system.

/ / O.E. system / / non-O.E. system / / not applicable

For O.E. system:

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

For non-O.E. system:

/ / System disconnected at throttle

h. List problems found with any other vacuum hoses.

_____ no other problems found

_____ problems found, specify _____

Action taken _____

16. Start engine Time _____

Engine warm Time _____

(Vehicles equipped with an electric cooling fan should be run until fan operates)

Electric cooling fan operates YES / / NO / / Not equipped / /
with an electric cooling fan

If NO, describe _____

17. Check the automatic transmission fluid level and add if necessary.

_____ not applicable _____ level low

_____ level ok _____ fluid added

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ / MANUFACTURER REPRESENTATIVE _____ / EPA REPRESENTATIVE _____

18. Check electrical wiring for proper connections and integrity of wires (idle solenoid, ignition and spark control, engine temperature switches, sensors, etc.).

_____ wiring ok
 _____ not ok, specify _____
 _____ repaired or replaced, describe _____

19. Exhaust System

- a. _____ Drain holes plugged in exhaust system
 _____ Not applicable
- b. Check exhaust system for leaks with engine running.
 _____ No leaks
 _____ System leaks; location _____
 _____ Leaks repaired; describe _____

20. a. Remove all spark plugs. See emission label to determine if plug is O.E. Record the information for the plug(s) removed.

Specified O.E. make and number _____

Specified gap _____

b. Check compression

Compression Spec. please provide

(Always use a fully charged battery to obtain engine speed of 250 rpm or more)

VW: new 11.0... 14.0 bar
min. 10 bar
difference between cylinder max. 3.0 bar

Cylinder No.	Brand	Part No.	Gap	Condition	Compression
1	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ / MANUFACTURER REPRESENTATIVE _____ / EPA REPRESENTATIVE _____

9 of 14 2008 Audi A4 and A6 8ADXV03.1374 Confirmatory Class #:N001c/N002cRXX-____
 4 _____
 5 _____
 6 _____

If actual plugs are non-O.E., are they equivalent to O.E.?

_____ yes _____ no _____ Unknown _____ Not Applicable

Replace ALL plugs with O.E. plugs.

List brand and type of new plugs installed: _____

21. Check valve clearances (if applicable) and adjust if necessary. See VECI label (ONLY IF RECORDS SHOW THAT ROCKER ARM OR LIFTERS HAVE BEEN REMOVED OR REPLACED)

Spec: Spec:
 Intake _____
 (Other) _____
 Exhaust _____

	1	2	3	4	5	6	7	8
As Received:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____
Set to:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____

22. Check the following to determine whether they are non-O.E. parts and their condition. Replace any found to be excessively worn, or dirty, or fouled, or if parts are not equivalent to O.E. Also, replace parts for which removal necessitates replacement.

NOT
 O.E. NON.-O.E. APPL. CONDITION MAINTENANCE
 ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

a. air filter _____

NOTE: Manufacturer recommended air cleaner filter is: _____

b. oil filter _____

c. fuel filter _____

d. ignition wires _____

e. distributor cap _____

f. distributor rotor _____

g. PCV valve _____

h. PCV filter _____

i. air conditioner _____

j. fuel filler cap _____

k. List below any other non-O.E. parts found in the visual check and their condition and maintenance _____ None Non-O.E. _____

NOTE: Manufacturer recommended air cleaner filter is: What is the recommended air cleaner?

VW:

for AUDI A6: 4F0 133 843

For AUDI A4: 06C 133 843

23. a. Check oil level.

_____ oil level ok

_____ oil level below ½ qt.

b. Replace oil and filter as recommended by manufacturer:

#W## GF# oil; engine oil filter: _____

VW:

VW 50200 oil

5W40

5W30

0W40

_____ oil and oil filter replaced

24. For LDTs only (#24 and #25)

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Do only if the truck has over _____ miles or is over _____ months old.

Is the EGR maintenance light on? Yes _____ No _____

If the EGR light is on and the maintenance has not been performed previously by the owner (from the owner's records), perform the following :

25. Verify if O2 maintenance has been performed (from owner's records)

Yes _____ No _____

If yes, when? _____

If O2 maintenance has not been performed, perform the following:

Additional maintenance items to be performed:

26. Start engine Time _____

Engine warm Time _____

27. Preparation for parameter set.

_____ engine at normal operating temperature

_____ accessory equipment off

PERFORM THE FOLLOWING CHECKS AND ADJUSTMENTS ACCORDING TO THE PROCEDURES AND INSTRUCTIONS SPECIFIED ON THE EMISSION LABEL AND/OR THE SHOP MANUAL.

28. Check idle ignition timing and adjust if necessary.

gear setting _____

as received _____ at _____ rpm

spec.* _____ at _____ rpm

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

set to _____ at _____ rpm
*See VECI label and/or shop manual.

29. Check and adjust, if necessary, the idle speed(s) settings.

Idle speed adjustment plugs present / /yes / / no / / N/A

If idle is out of spec. see VECI label and/or shop manual.

- a. Curb idle speed

gear setting _____ observed _____ rpm

spec.* _____ rpm set to _____ rpm

*See VECI label and/or shop manual

- b. TPS output voltage. (Curb idle speed)

observed _____ vdc

Spec. _____

30. List any comments relevant to the inspection performed on this vehicle:

31. Record Trouble Codes (after M-2)

32. Attach any special procedures to this form.
Special procedures attached? Y / N

Time completed _____

Date _____

Signature of mechanic and observers:

MECHANIC _____

EPA REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

MANUFACTURER REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE
1. Name		
2. Address		
3. City		
4. State		
5. Zip		
6. Phone		
7. Fax		
8. E-mail		
9. Signature		
10. Title		
11. Date		

[illegible]

MECHANIC	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE
1. Name		
2. Address		
3. City		
4. State		
5. Zip		
6. Phone		
7. Fax		
8. E-mail		
9. Signature		
10. Title		
11. Date		

Engine Oil, Draining and Replacing Oil Filter



WARNING

Oil extraction not permitted with various engine types!



Note

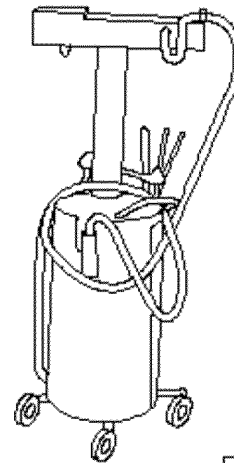
Perform oil change at operating temperature.

Special tools and workshop equipment required

Oil Extractor 1782

Tension Band 2171

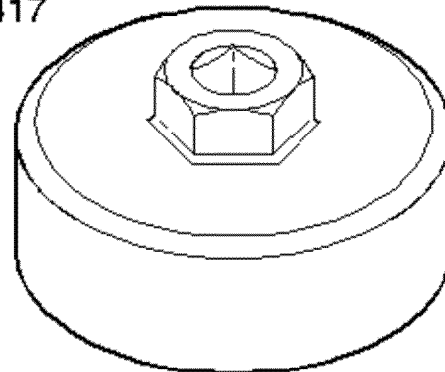
V.A.G 1782



W00-10211

Oil Filter Key 3417

3417



W00-0408

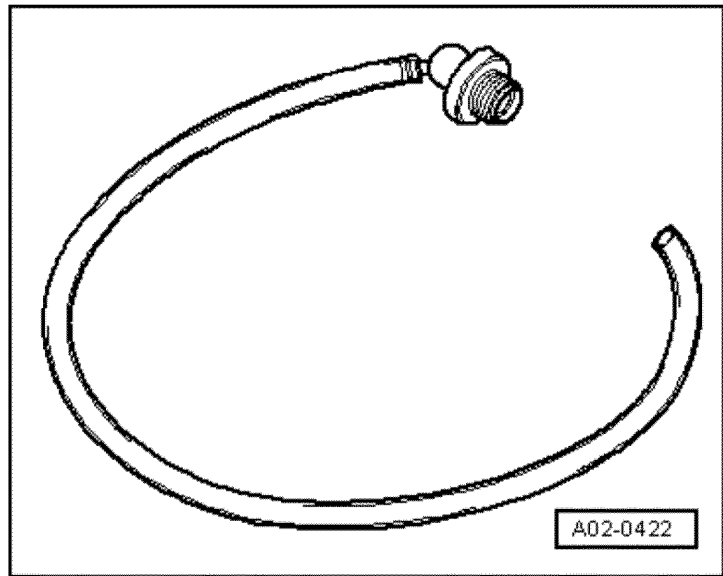
Oil Drain Adapter 40057 (2.0 TFSI)



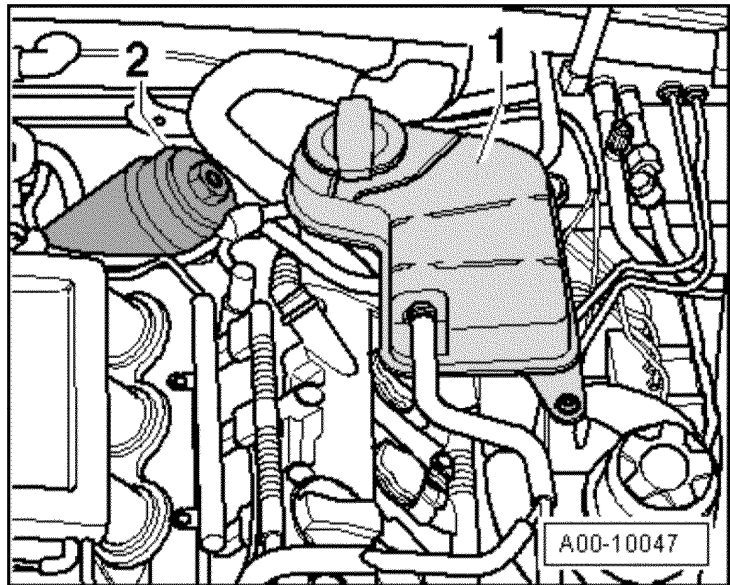
Note

Observe waste disposal regulations!

V6 3.0L TFSI and 3.2L FSI

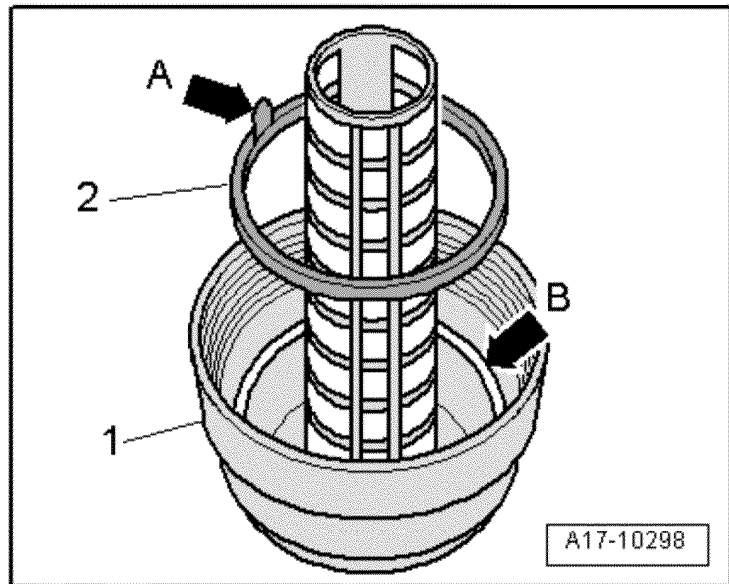


- Remove coolant reservoir 1 and lay aside.
- Remove oil filter cover with SW 36 2.
- Clean sealing surfaces oil filter cover and at oil filter housing.
- Replace oil filter insert.



Sealing ring on cap, replacing

- Remove sealing ring at pull tab 1 arrow A from cap 1.
- Insert new sealing ring 2 with semicircular profile in groove 1 arrow B on cap.
- 1 The pull tab 1 arrow A must face upward.
- 1 Smooth side of sealing ring 2 must face toward outside



O-ring, inserting in oil filter housing

- Insert O-ring 2 in groove 1 arrow on oil filter housing

Note

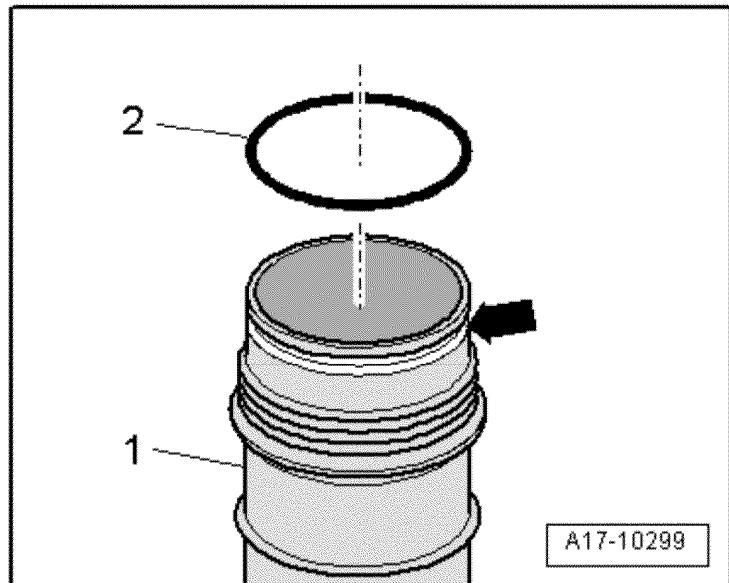
Observe waste disposal regulations!

- Engage new oil filter insert in oil filter cover.
- Install oil filter cover 3.
- Install coolant reservoir.
- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.

Note

Oil drain plug is installed without seal.

Check for cleanliness.



Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	30

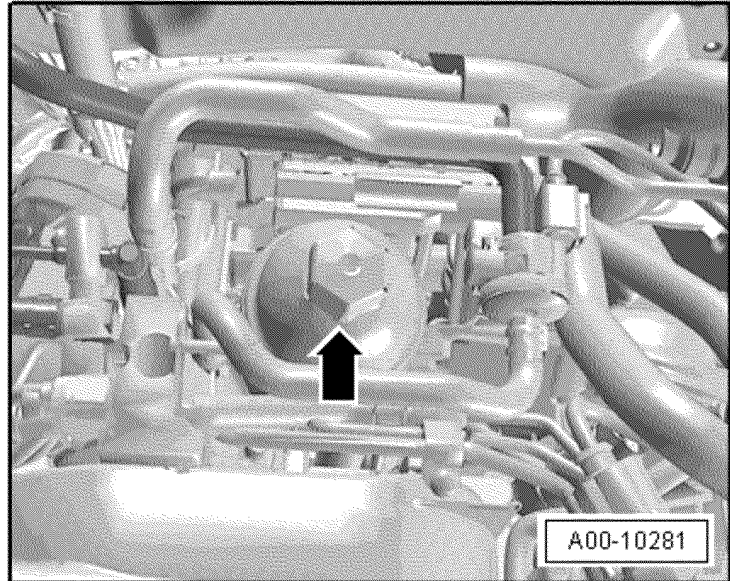
- Fill motor oil. Refer to → Chapter „Engine Oil, Filling“

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

V8 BVJ

- Remove the oil filter cover with a Socket Wrench [SW 32] [arrow]
- Clean sealing surfaces oil filter cover and at oil filter housing.



- Replace O-rings [2] and [4] and filter component [3]

Note

By removing the filter element, a valve is opened that allows the oil in the filter housing to flow automatically back into the crankcase.

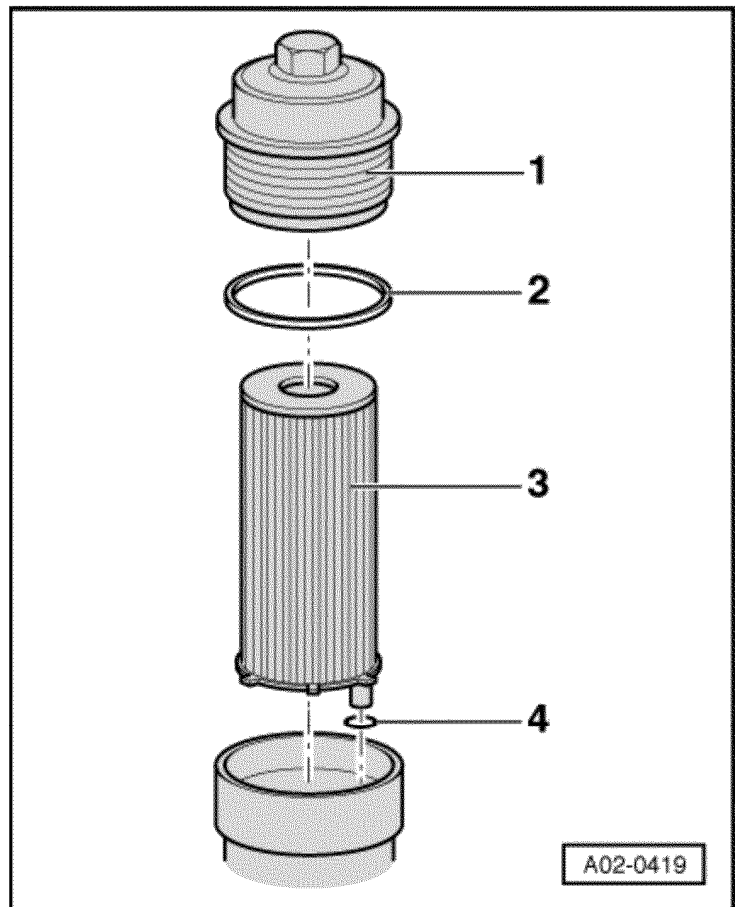
Observe installation position of tab on oil filter.

Observe waste disposal regulations!

- Insert new oil filter in filter housing
- Install new O-ring [2] and lubricate lightly.
- Install oil filter cover [1]
- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.

Note

Install oil drain plug with new gasket.



Check for cleanliness.

Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	25

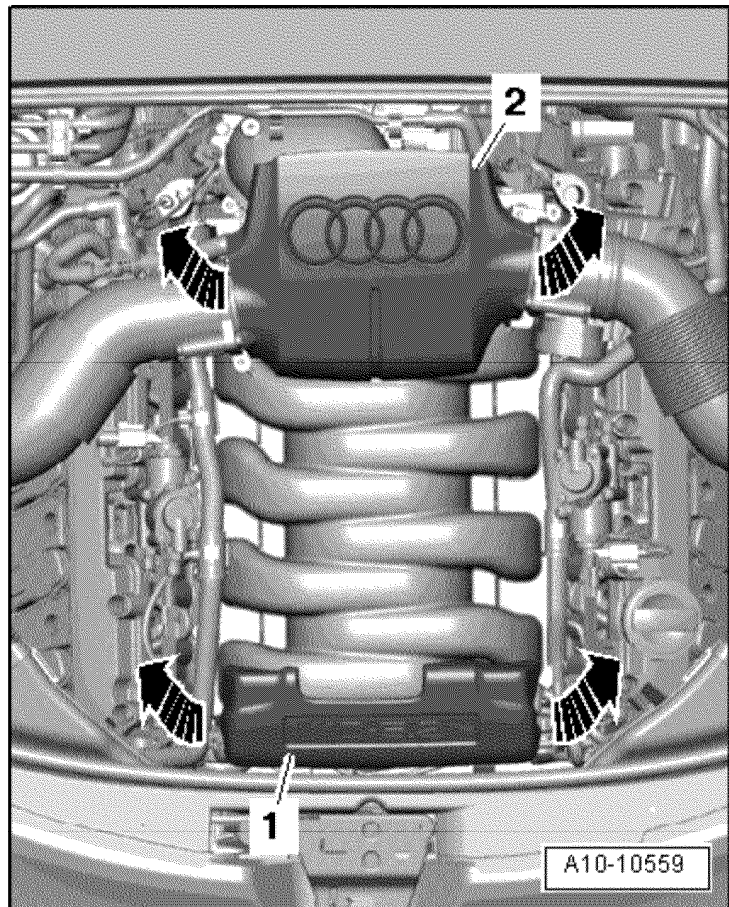
- Fill motor oil. Refer to → Chapter „Engine Oil, Filling“.

For oil specifications and capacities, refer to

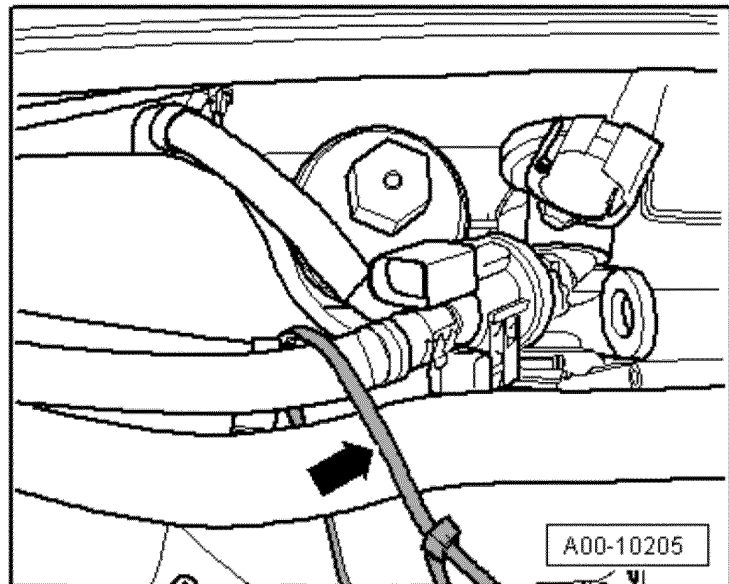
→ Fluid Capacity Tables; Rep. Gr.03;

5.2L FSI

- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“
- Open oil drain plug and drain engine oil.
- Install oil drain plug with new gasket.
- Remove rear engine cover [2] [arrows]
- Remove EVAP valve from bracket and lay aside.



- Secure EVAP line, permanent ventilation line and sound pipe line at front with cable ties.



- Loosen cover 1 AF 32.
- Remove filter component 3
- Replace O-rings 2 and 4 and filter element 3

Observe installation position of tab on oil filter.

- Fill with engine oil.

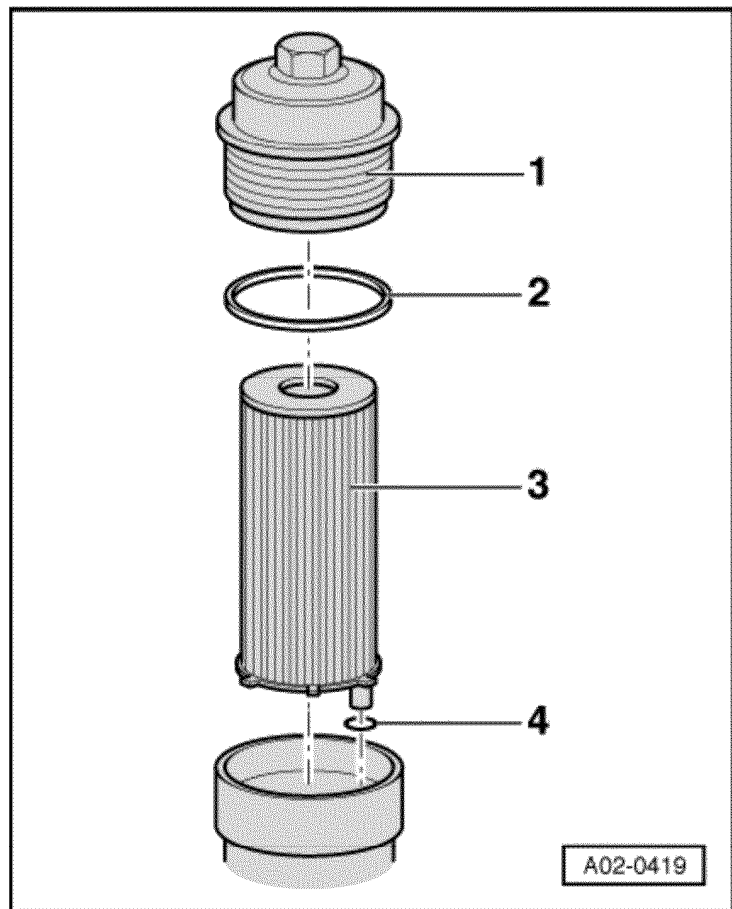
For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

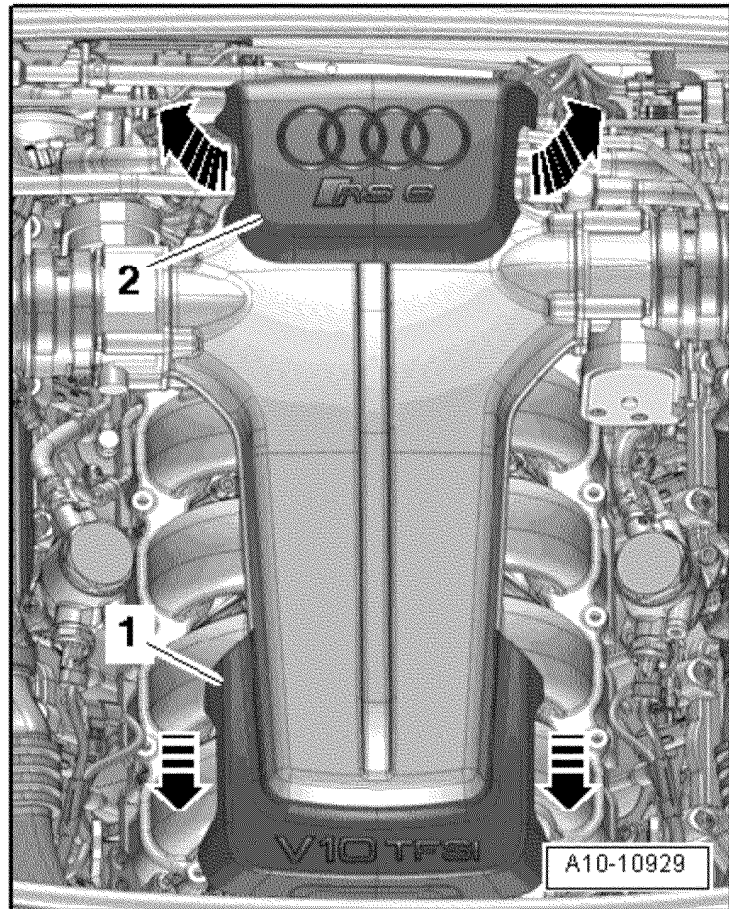


Note

Observe waste disposal regulations!

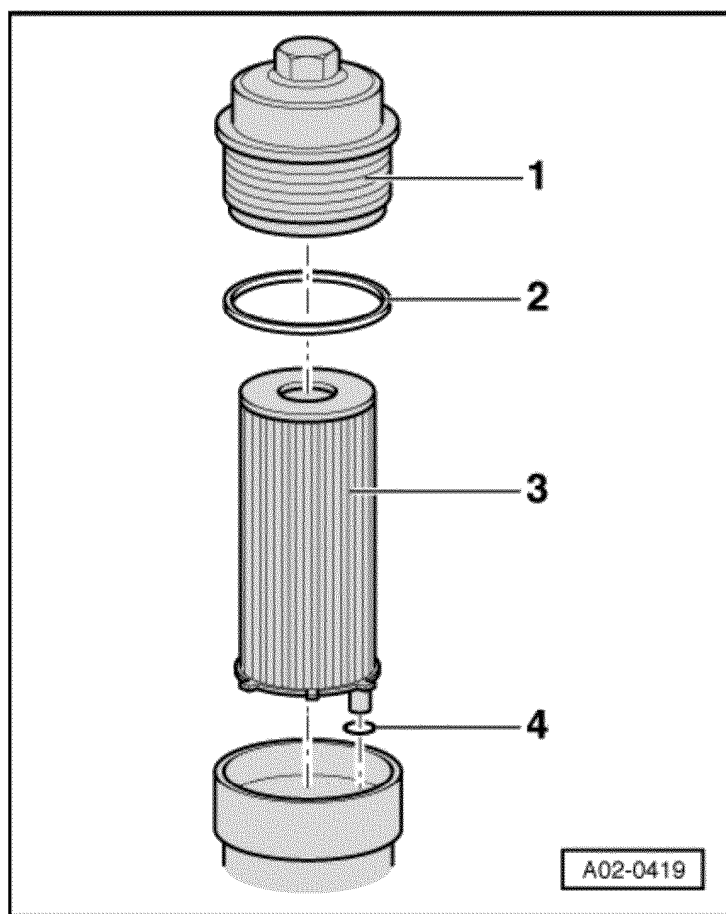


Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug	25

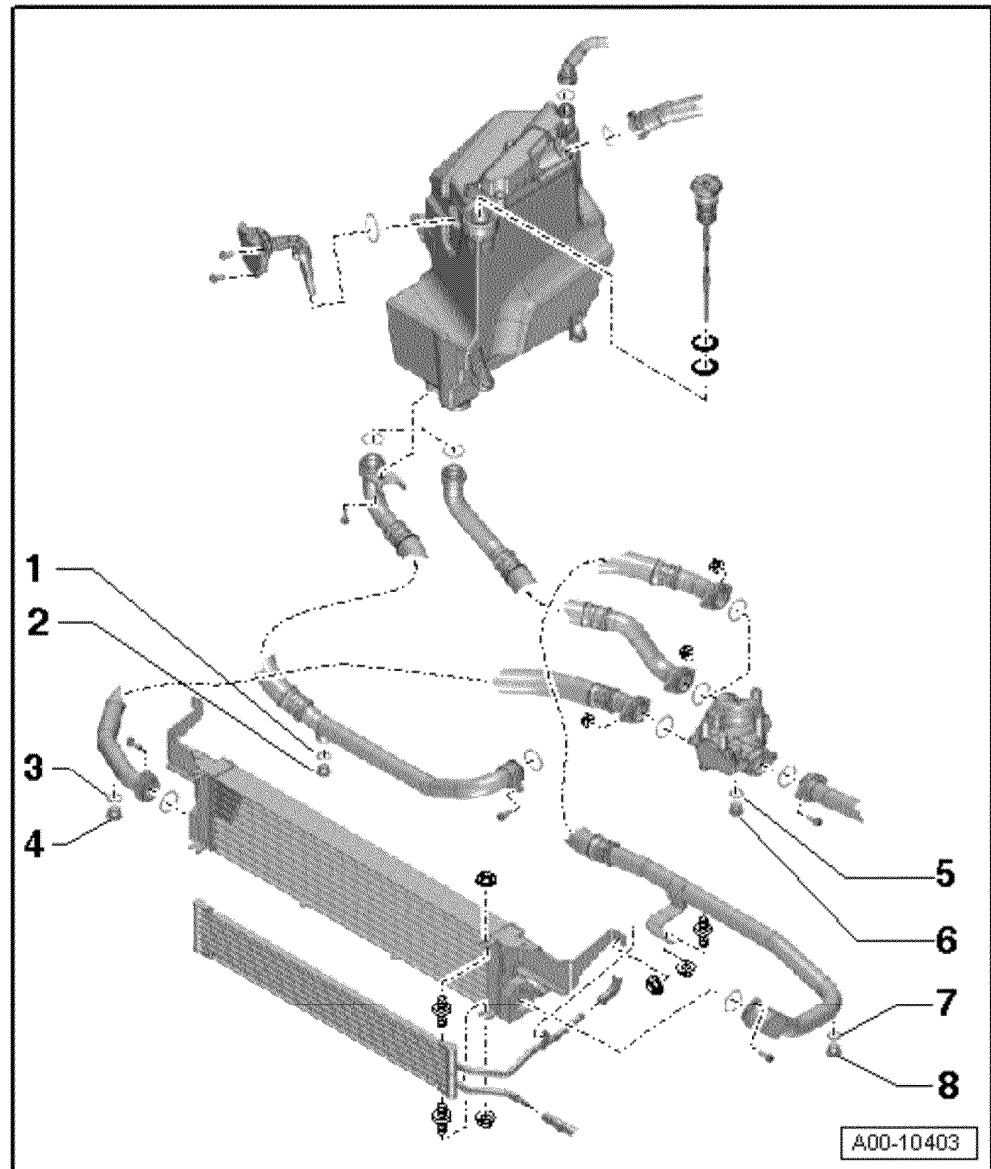
V10 TFSI, RS 6



- Remove rear engine cover [2] toward the rear [arrows]
- Free up the oil filter housing cover [1]
- Loosen cover [1] AF 32.
- Remove filter component [3]
- Replace O-rings [2] and [4] and filter element [3]

Observe installation position of tab on oil filter.



- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“



- Open the oil drain plugs 2, 4, 6 and 8 and drain the oil.
- Open oil drain plug  and drain engine oil.
- Install the oil drain plug with a new gasket.
- Remove any remaining oil the oil pan using an oil extractor .



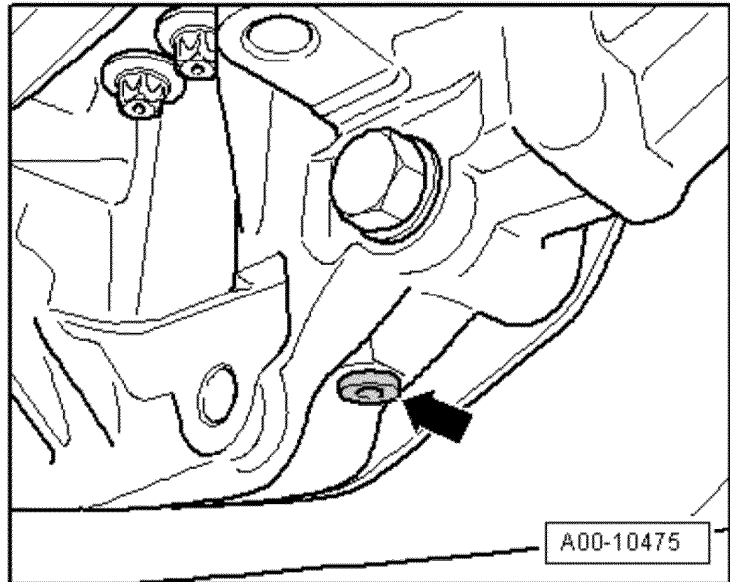
Note

The number of oil drain plugs will vary between 2 (only on the oil pipes) and 5 depending on the vehicle and engine versions.

**WARNING**

Pay attention to the tightening specifications.

Always pay attention to the instructions when filling the engine oil. Refer to → Chapter „Engine Oil Filling, RS 6“.



Tightening Specifications	Nm
Oil filter cover	25
Thermostat housing drain plug	25
Drain plugs on the oil tubes	40
Drain plug on the control housing	12 +/-0.5

- Fill the engine oil. Refer to → Chapter „Engine Oil Filling, RS 6“

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

**Note**

Observe waste disposal regulations!

Audi A6/S6



Caution

All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.

Refer to Technical Bulletin 2010043 for engine oils meeting the required Audi oil quality standards.

Part numbers are for reference only. Always check with your parts department for the latest information.

Component/System		Capacity	Part Number/Specification
3.2 L Engine			
	Oil and Filter Change	6.5 L (6.9 qt.)	VW 502 00
	Coolant	9.6 L (10.1 qt.)	G 012 A8G
4.2 L Engine			
	Oil and Filter Change	9.1 L (9.6 qt.)	VW 502 00
	Coolant	12.0 L (12.7 qt.)	G 012 A8G
5.2 L Engine			
	Oil and Filter Change	10.0 L (10.6 qt.)	VW 502 00
	Coolant	15.0 L (16.0 qt.)	G 012 A8G
Continuously Variable Transmission 01J			
	Initial Fill	7.5 L (7.9 qt.)	G 052 180 A2
	Refill	4.5 - 5.0 L (4.8 - 5.3 qt.)	
	Front Final Drive	1.3 L (1.4 qt.)	G 052 190 A2
6 Speed Automatic Transmission 09L			
	Initial Fill	9.8 L (10.3 qt.)	G 060 162 A2
	Refill	8.0 L (8.5 qt.)	

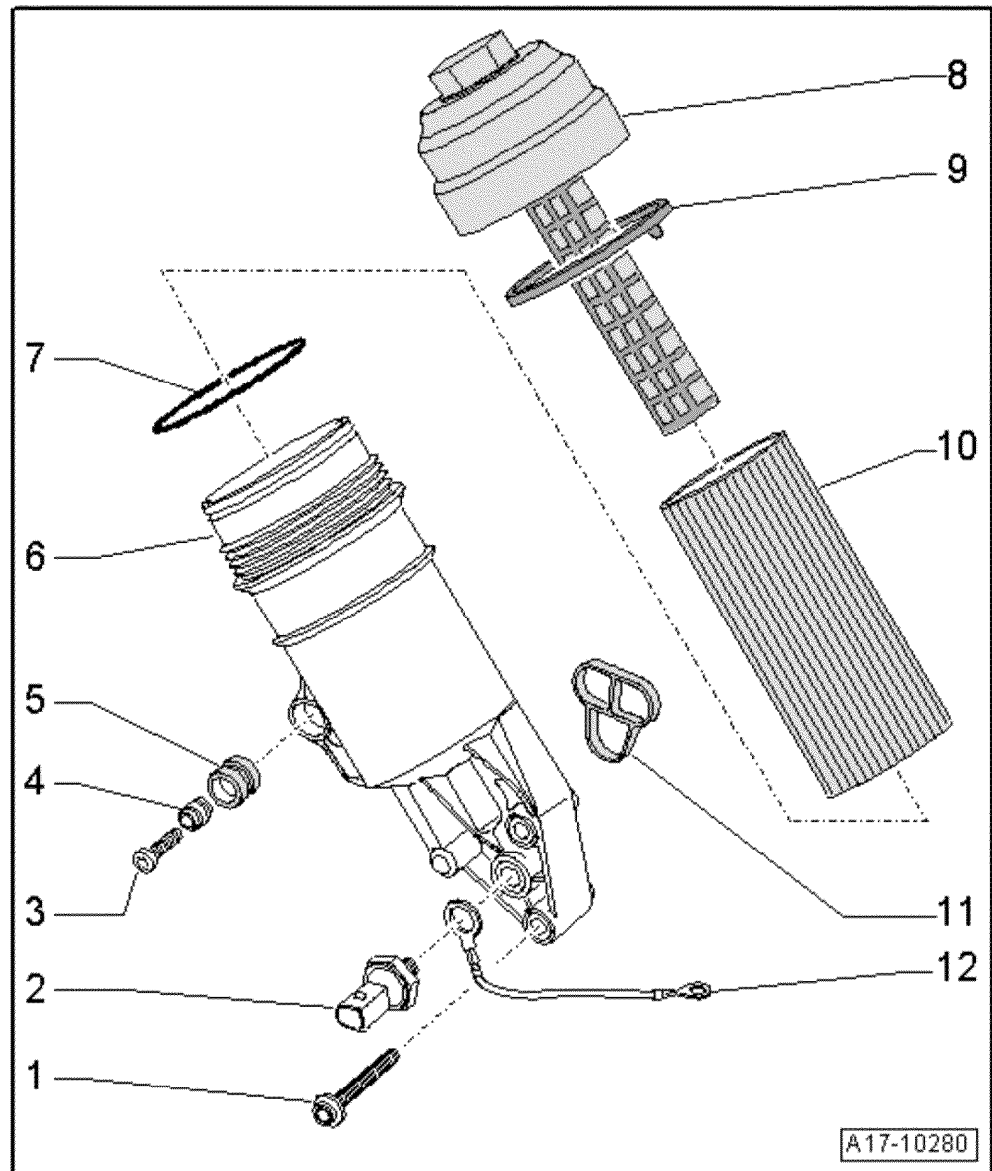
	Front Final Drive	1.1 L (1.2 qt.)	G 052 145 S2
	Transfer Case	0.6 L (0.6 qt.)	G 055 145 A2
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	G 052 145 S2
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	
6 Speed Automatic Transmission 09E			
	Initial Fill	10.4 L (11.0 qt.)	G 055 005 A2
	Refill	10.0 L (10.6 qt.)	
	Front Final Drive	1.1 L (1.2 qt.)	G 055 145 S2
	Transfer Case	1.2 L (1.3 qt.)	
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	
Brake System			
	-	1.0 L (1.1 qt.)	G 000 750
A/C System			
	Refrigerant	530 ± 20 g (18.7 ± 0.7 oz.)	See ETKA
	PAG Oil	130 ± 10 cc (4.4 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	-	4.8 L (5.1 qt.)	G 052 164

edition-061110

Oil Filter Housing Assembly Overview

Vehicles through 04.2005

- 1 - 13 Nm
- 2 - Oil pressure switch - F1-



Black insulation
checking → Chapter „Oil Pressure, Checking“
Removing and installing → Chapter
Tighten to 20 Nm.

- 3 - 13 Nm
- 4 - Sleeve
- 5 - Rubber grommet
- 6 - Oil filter housing

with filter by-pass valve 3.0 bar
 with oil check valve
 Oil check valve cannot be replaced
 Removing and installing → Chapter

7 - O-ring

Replace
 inserting → Fig.

8 - Cover - 25 Nm

9 - Seal

Replace
 Removing and installing → Fig.

10 - Oil filter element

Removing and installing

→ Booklet405

11 - Gasket

Replace

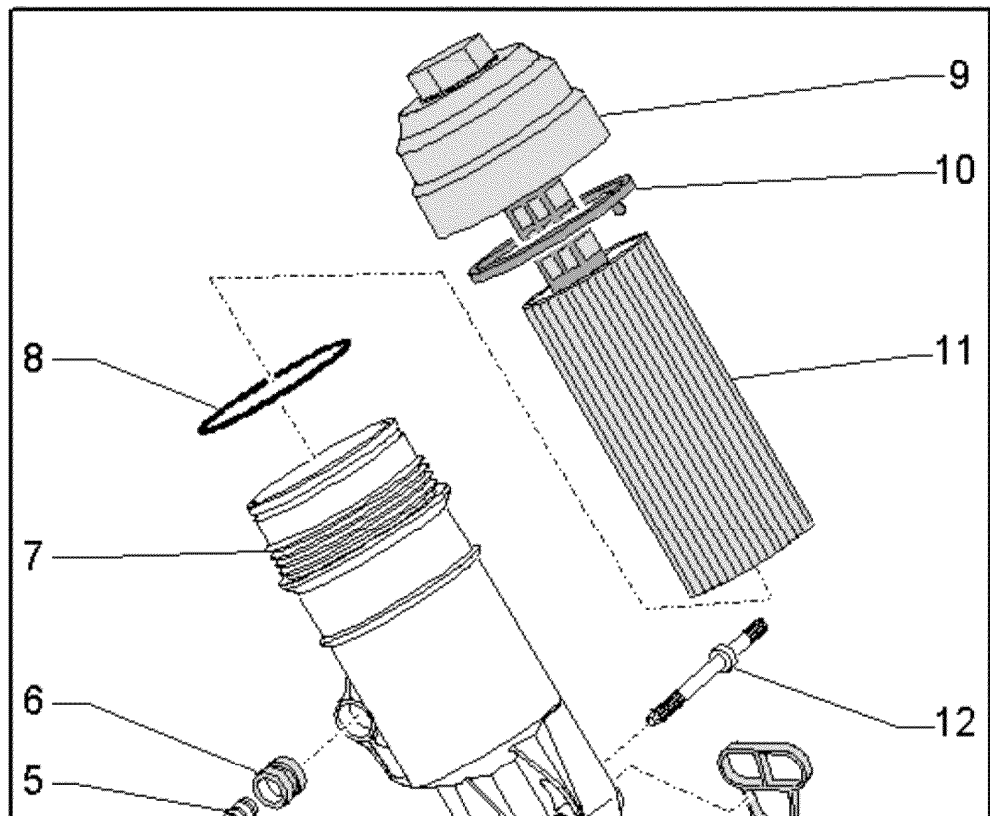
12 - Seal with ground (GND) wire

Replace

Vehicles from 05.2005

1 - 13 Nm

2 - Oil
 pressure
 switch -
 F1-



Tighten to 20 Nm.

Black insulation

Removing and installing, refer to → Chapter „Oil Pressure Switch“

Checking → Chapter „Oil Pressure, Checking“

3 - Multi-point socket head union nut - 13 Nm

4 - 13 Nm

5 - Sleeve

6 - Rubber grommet

7 - Oil filter housing

With filter by&pass valve 3.0 bar

With oil check valve

Oil check valve cannot be replaced

8 - O-ring

Replace

Inserting, refer to → Fig. „O&ring, Inserting on Oil Filter Housing“

9 - Cover - 25 Nm

10 - Seal

Replace

Removing and installing, refer to → Fig. „Sealing Ring on Cap, Replacing“

11 - Oil filter element

Removing and installing, refer to

→ Booklet405

12 - Stud bolt - 16 Nm

13 - Gasket

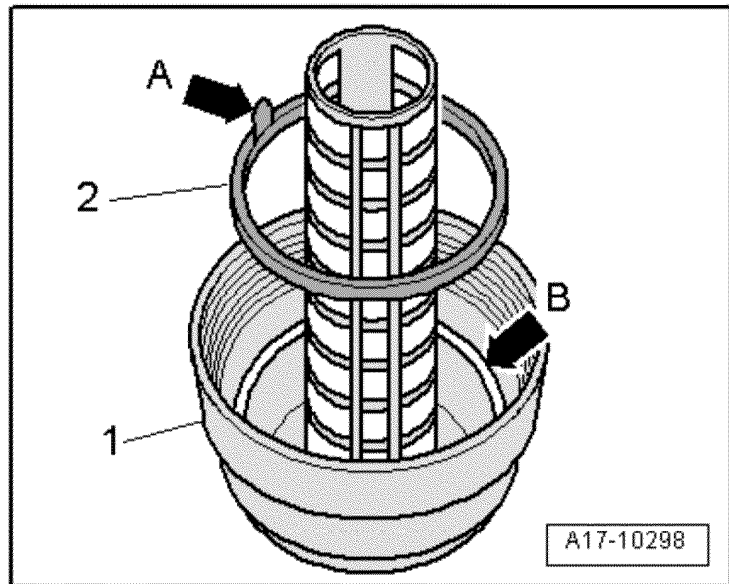
Replace

14 - Seal with Ground (GND) wire

Replace

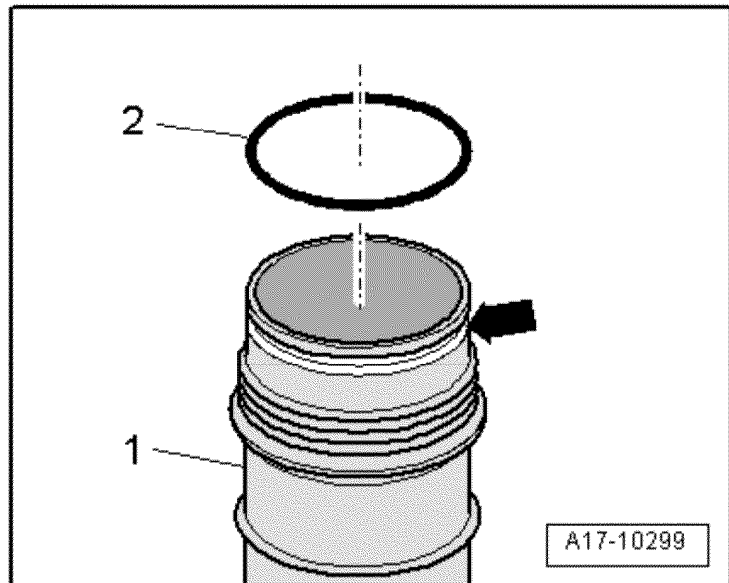
Sealing Ring on Cap, Replacing

- Remove sealing ring & at pull tab & from cap &.
- Insert new sealing ring with semicircular profile in groove & arrow B& on cap.
- 1 The pull tab & must face up.



O-ring, Inserting on Oil Filter Housing

- Insert O-ring (2) in groove (A) on oil filter housing (1).



Engine, Checking Oil Level

NOTE

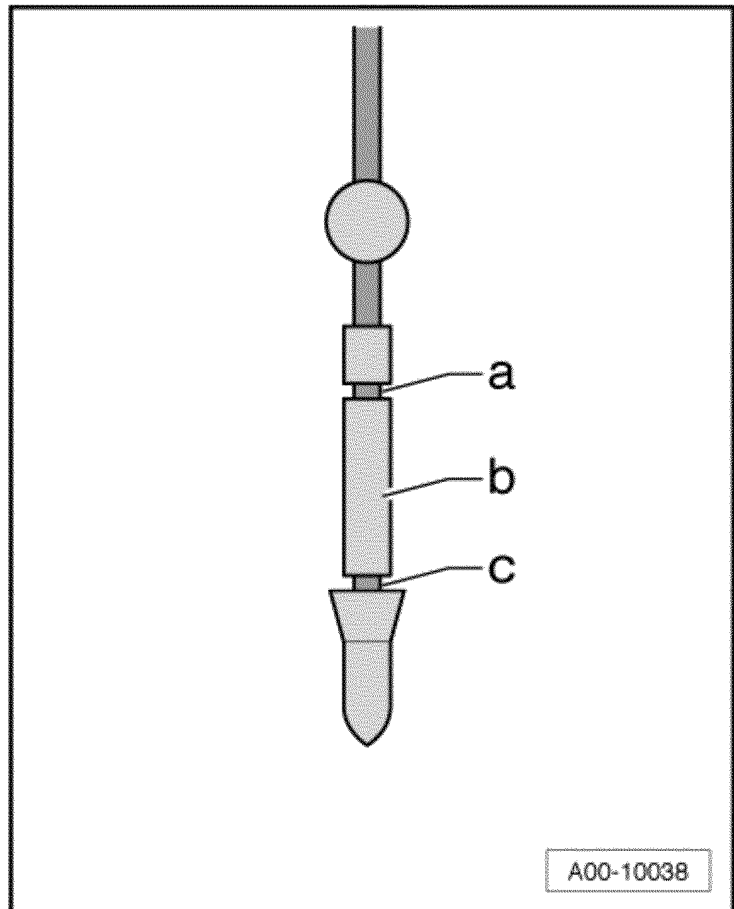
Minimum engine oil temperature 140°F (60°C).

Vehicle must be in level position.

After stopping engine, wait a few minutes to allow oil to flow back into oil pan.

- Pull out oil dipstick and wipe with clean rag. Replace dipstick and push down to stop.
- Pull out dipstick again and read oil level.

Markings on dipstick:



- a - Oil must not be topped off.
- b - Oil can be topped off. This will cause the oil level to be in area -a-.
- c - Oil must be topped off. It is sufficient when oil level is in area -b- (grooved field).

NOTE

Oil level must not exceed -a- mark on dipstick.

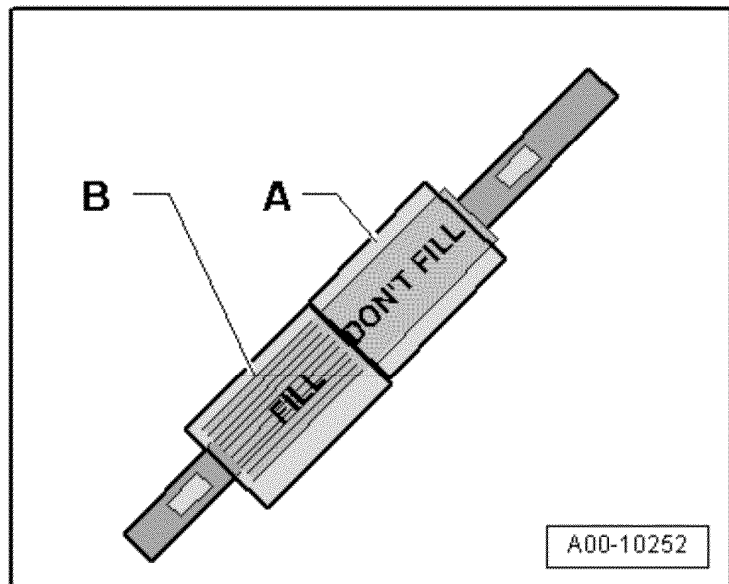
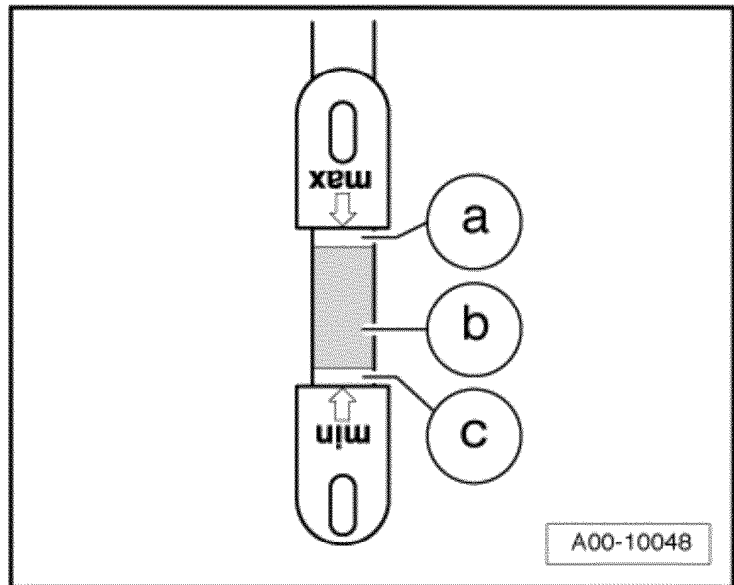
Checking Engine Oil Level, RS 6

- Follow these steps in sequential order.
- 1 Place the vehicle in a horizontal position.
- 1 Let the engine warm at different RPMs less than 2,500 RPM until the engine oil reaches a temperature of approximately 212 to 230 °F (100 to 110 °C) according to the instrument cluster. Refer to Owners Manual.
- 1 Let the engine run in idle for 3 minutes.
- 1 Switch off the engine and let the oil drain down for two minutes; then check the oil level within 10 minutes.
- 1 Add engine oil if necessary.
- 1 Oil level in the "B" range - add oil.
- 1 Filling capacity approximately 1 liter
- 1 The oil level can be within the "A" range.



NOTE

Add oil until the oil level is 5 mm below the upper edge of the "Do not Fill" range.



To: Sohacki.Lynn@epamail.epa.gov[Sohacki.Lynn@epamail.epa.gov]
From: "Berenz, Sebastian"
Sent: Wed 9/22/2010 2:19:42 PM
Subject: maintenance guide
[2008 AU Maintenance Cards.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the missing maintenance card which shows when a oil change is needed.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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2008 Scheduled Maintenance Intervals

Miles (in thousands)	5/25/45/65/85/105	15/55/95	35/75
Kilometers (in thousands)	8/40/70/100/130/160	25/85/145	55/115

Engine Oil – change oil and replace filter			
Wiper Blades – check condition and replace if necessary			
Wiper/Washer/Headlight Washer – check adjustment and function, add fluid if necessary			
Tires and Spare – check for wear and damage, check pressure – check for wear and damage, check pressure and renewal date of tire set (where applicable)			
Tires – rotate	5K only		
Service Reminder Display – reset			
Brake System – check for damage, leaks, pad thickness, fluid level			
Cooling System – check level, add if necessary			
Exhaust System – check for damage, leaks			
Engine On-Board Diagnostics – check fault memory		Except Audi Q7, TT, A5, S5 and R8	Except Audi Q7, TT, A5, S5 and R8
Engine Compartment – check for leaks			
Battery – check and replace if necessary			
Dust and Pollen Filter – replace			
Automatic Transmission and Final Drive – check for leaks			
Manual Transmission and Final Drive – check for leaks			
Haldex Clutch – change oil			A3 and TT only
Front Axle – check for excessive play, check dust seals on ball joints and tie rod ends		Except Audi Q7, TT, A5, S5 and R8	
Lights – check all lights, check headlight adjustment		A8 and S8 only	Except Audi Q7, TT, R8, A5 and S5
Drive Shaft Boots – check			
Front Sunroof Drains (where applicable) – open sunroof to check front water drain and clean if necessary (U.S. only)			
Plenum Panel – remove cover to plenum panel to check water drains and clean if necessary (U.S. only)			A4, A4 Avant, A4 Cabriolet, S4, S4 Avant, S4 Cabriolet, RS4, RS4 Cabriolet, A6, A6 Avant, S6, A8 and S8 only
Doors – lubricate doors, check straps and hood latch		A8 and S8 only	
Spark Plugs – replace at 35,000 miles or 3 years, whichever occurs first. Then, every 40,000 miles or 3 years, whichever occurs first. – replace at 55,000 miles or 6 years, whichever occurs first. Then, every 60,000 miles or 6 years, whichever occurs first. – replace at 75,000 miles		Except A3 3.2L, TT 3.2L and A8 6.0L	35K only: A3 3.2L, TT 3.2L and A8 6.0L 75K only: A3 3.2L, TT 3.2L and A8 6.0L
Continuously Variable Transmission (multitronic) – change ATF			
Power Steering Fluid – check, add if necessary			
Air Cleaner – clean housing, replace filter element		55K only: except RS4, Audi Q7 4.2L and A8 6.0L	35K only: RS4, A8 6.0L; 75K only: RS4, Audi Q7 4.2L and A8 6.0L
Ribbed V Belt and Tensioner – check condition and replace if necessary		RS4 and R8 only	RS4, Audi Q7 3.6L, A8 6.0L and R8 only
Ribbed V Belt – replace – check condition and replace if necessary. Check tension of belt drive with manual tensioner and retension if necessary.			75K only: S4 75K only: 2.0L, 3.2L, 4.2L FSI and 5.2L
Snow Screen for Air Cleaner – clean		A4, A5, S5 and A6 only	A4, A5, S5 and A6 only
Underbody – check for damage and leaks			
Road Test – check braking, kick-down, steering, electrical, heating and ventilation systems, air conditioning, ASL Automatic Shift Lock and power accessories			
Rear Lid Hinges – lubricate		A8 and S8 only	A8 and S8 only
Horn – check function			
Brake Discs – check thickness			
Lights – check all lights via instrument cluster. Check license plate light from the rear of the vehicle			Audi Q7, TT, A5, S5 and R8 only
Interior Lights – check all interior lights, glove box illumination, control lights and MMI (if applicable)			
S Tronic – change oil and replace filter element			A3 and TT only
Brake Fluid – replace every 2 years regardless of mileage.			
Cloth Top – check function and rollover protection every 2 years regardless of mileage (Audi A4 Cabriolet, S4 Cabriolet and RS 4 Cabriolet only).			

At 110K miles (175,000 km) replace timing belt (2.0L engine only). Check condition of timing belt tensioning system, dampening pulleys, and idler pulleys and replace if necessary (2.0L engine only).

Audi of America, Inc. believes the information and specifications to be correct at the time of printing. Specifications, maintenance intervals, standard features and options subject to change without notice.

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/22/2010 3:22:02 PM
Subject: Re: maintenance guide
sebastian.berenz@vw.com

Thanks again!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: <Sohacki.Lynn@epamail.epa.gov>
Date: 09/22/2010 10:20 AM
Subject: maintenance guide

Hello Lynn,

Attached you will find the missing maintenance card which shows when a oil change is needed.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
[attachment "2008 AU Maintenance Cards.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 9/24/2010 12:42:36 PM
Subject: open questions
sebastian.berenz@vw.com

Hello Lynn,

In order to answer your questions I have some additional information for you.

Oil:

You can use one of the following oils, as long as they are specified to the VW50200 standard

- 5W40
- 5W30
- 0W40

Oilfilter:

You need to order the following part number:

- 06E 115 562 A

It contains a filter and the gaskets

Then follow the descriptions I send you.

If you need one of these things we can support you with these parts. I checked for them and we have them in stock.

Just let me know.

If you have further questions, do not hesitate to task me.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 9/29/2010 3:27:29 PM
Subject: Copy of the owners manual
[20100929112132186.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find a copy of the owner's manual which shows when service is required.

There is a 1 year guideline.

If you have further questions let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

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Maintenance

Where do I bring my vehicle for service?

Authorized Audi dealers

Audi recommends you take your vehicle only to authorized Audi dealers to ensure that vehicle repairs are performed to the highest specifications. Your authorized Audi dealer has the proper tools and equipment, the staff of trained specialists, and access to the extensive range of parts necessary to properly maintain your vehicle's safety, reliability, and value for years to come.

Audi R8 Service and Repairs

Due to the specialized tools, equipment, and technical training necessary to perform service and repairs on the Audi R8, Audi recommends that all maintenance service and repair work is performed at an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point. Audi will not accept any liability for maintenance service, repair, or any damage resulting from maintenance service or repair performed at a facility that is not an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point. ■

When do I bring my vehicle in for service?

Service intervals

If you are not sure when you should bring your Audi in for service or which services are to be performed on your vehicle, ask your authorized Audi Service Advisor.

Service intervals in miles (kilometers)	
5,000 miles (8,000 km) ^{a)}	Minor Maintenance Service with tire rotation
15,000 miles (25,000 km) ^{b)}	Major Maintenance Service
25,000 miles (40,000 km)	Minor Maintenance Service
35,000 miles (55,000 km)	Major Maintenance Service with additional items
45,000 miles (70,000 km)	Minor Maintenance Service
55,000 miles (85,000 km)	Major Maintenance Service with additional items
65,000 miles (100,000 km)	Minor Maintenance Service
75,000 miles (115,000 km)	Major Maintenance Service with additional items
85,000 miles (130,000 km)	Minor Maintenance Service
95,000 miles (145,000 km)	Major Maintenance Service
105,000 miles (160,000 km)	Minor Maintenance Service
110,000 miles (175,000 km)	Timing Belt Replacement (TT 2.0T front wheel drive and A4 Cabriolet 2.0T only)

The time-sensitive maintenance items table contains additional maintenance items

- a) First minor maintenance service at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.
- b) First major maintenance service at 15,000 miles (25,000 km) or 1 year after the first minor service, whichever occurs first. Maintenance Services thereafter occur at 10,000 mile (15,000 km) intervals or 1 year from last service, whichever occurs first (alternating between minor and major services).

The intervals shown in this table are based on vehicles operating under normal conditions. In case of severe conditions, such as extremely low temperatures, excessive dust, etc., it is necessary for certain operations to be carried out in between the given intervals. This applies particularly to engine oil changes and the cleaning or replacing of the air cleaner filter element.

Time-sensitive maintenance items

The following maintenance items contain special time-sensitive service intervals (in addition to mileage intervals where applicable).

Service interval by time (and mileage where applicable)	Maintenance item
Every 2 years regardless of mileage (kilometers)	Replace brake fluid (all vehicles)
Every 2 years regardless of mileage (kilometers)	Check cloth top function and roll-over protection with cloth top down (Audi A4 Cabriolet and Audi S4 Cabriolet only)
At 3 years or 35,000 miles (55,000 km), whichever occurs first. Thereafter every 3 years or 40,000 miles (60,000 km), whichever occurs first.	Replace spark plugs (Audi A3 3.2L, Audi TT 3.2L, and Audi A8 6.0L only)
At 6 years or 55,000 miles (85,000 km), whichever occurs first. Thereafter every 6 years or 60,000 miles (90,000 km), whichever occurs first.	Replace spark plugs (all models except Audi A3 3.2L, Audi TT 3.2L, and Audi A8 6.0L)

For the sake of the environment

By regularly maintaining your vehicle, you help make sure that emission standards are maintained, thus minimizing adverse effects on the environment. ■

Maintenance service schedule

Minor Maintenance Service

First at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first. Thereafter every 20,000 miles (30,000 km) or two years, whichever occurs first.

Engine oil / Oil filter - Change oil and replace filter.

Service reminder indicator display - Reset display.

Brake system - Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades - Check condition and replace if necessary.

Windshield washer and headlight washing system - Add fluid if necessary. Check adjustment and function.

Tires and spare wheel - Check for wear and damage. Check tire pressure.

Additional item at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.

Rotate tires ■

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 9/29/2010 6:15:32 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicle that we have scheduled for next week. I will send another shortly.

N001RXX-0043c (2008 Audi/A4) - **Ex. 6** 10/06/10 (Wednesday) 0930 pick up.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 9/30/2010 7:45:43 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N001RXX-0043c- **Ex. 6** .pdf
3.1FSI drain refill.pdf

Hello Lynn,

Attached you will find the required data for the first confirmatory car.

We will be in Ann Arbor around lunch time on Wednesday next week to inspect the car.

Please let me know when you need additional data.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
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FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, September 29, 2010 2:16 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicle that we have scheduled for next week. I will send another shortly.

N001RXX-0043c (2008 Audi/A4) - **Ex. 6** 10/06/10
(Wednesday) 0930 pick up.

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.

Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative:

Date:

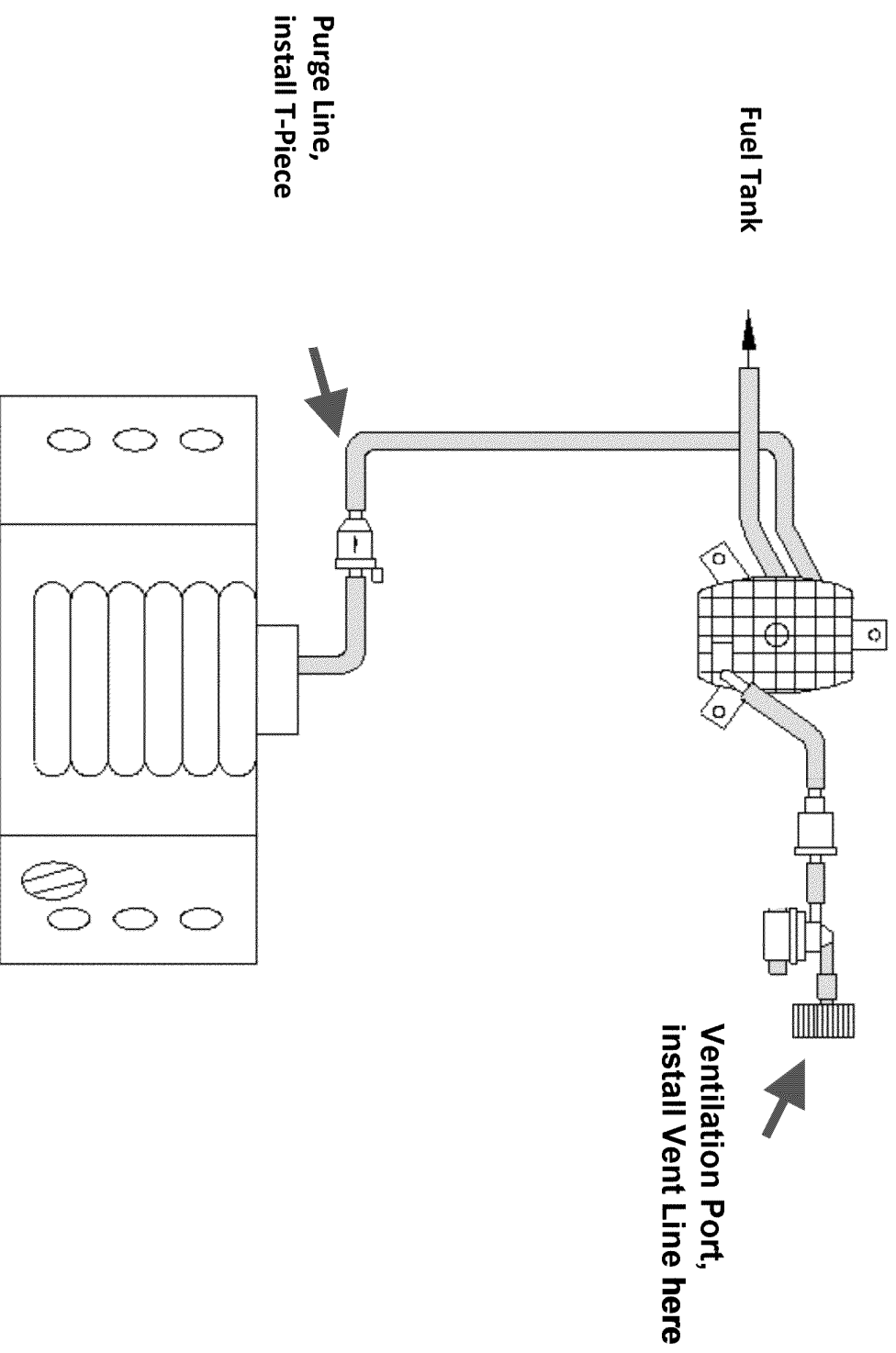
EG&G Representative:

Date:

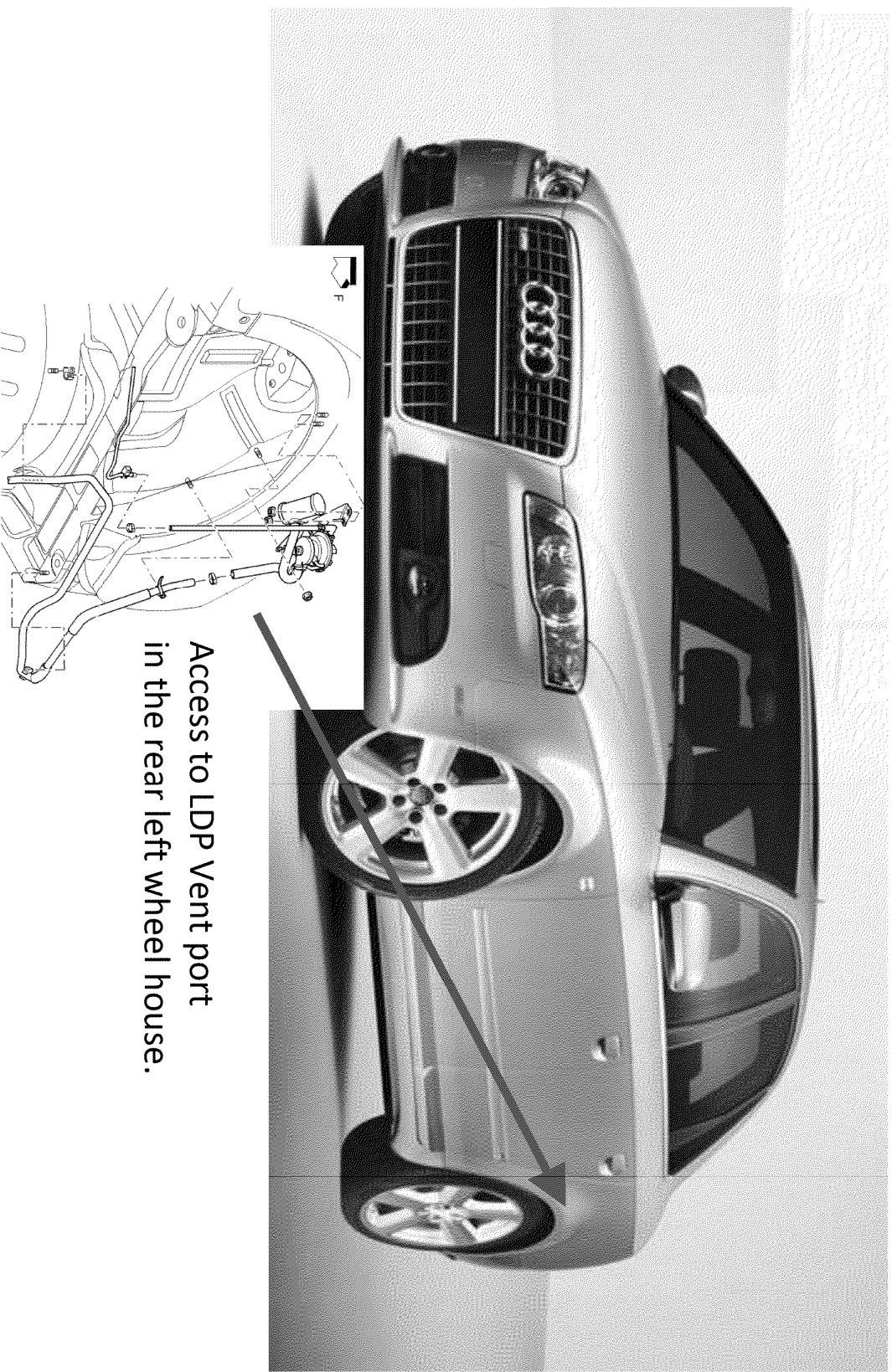
EPA Representative:

Date:

Structure of the Evap. System for Canister Loading/Purging

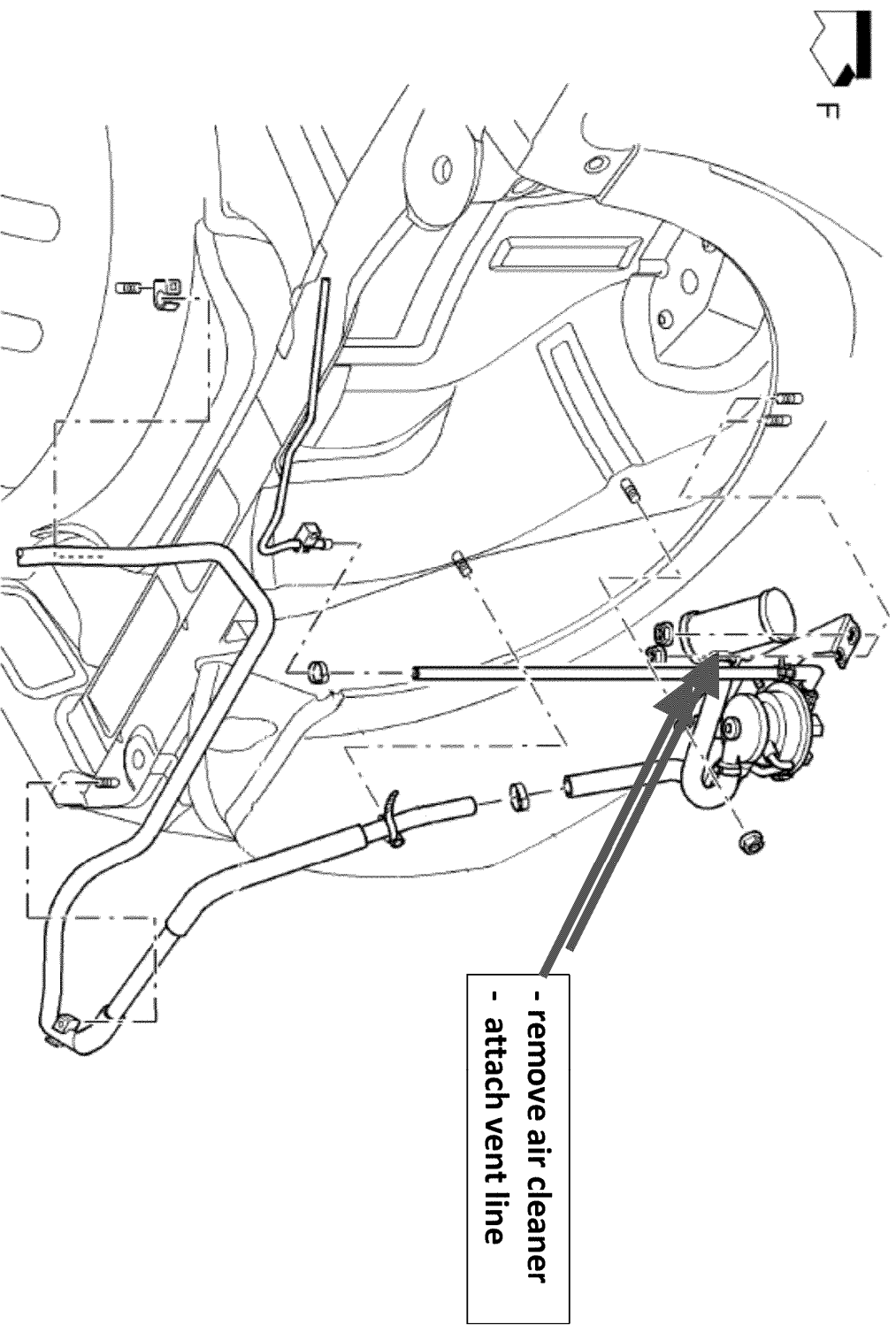


Audi A4, access to LDP Vent Port –rear left wheelhouse

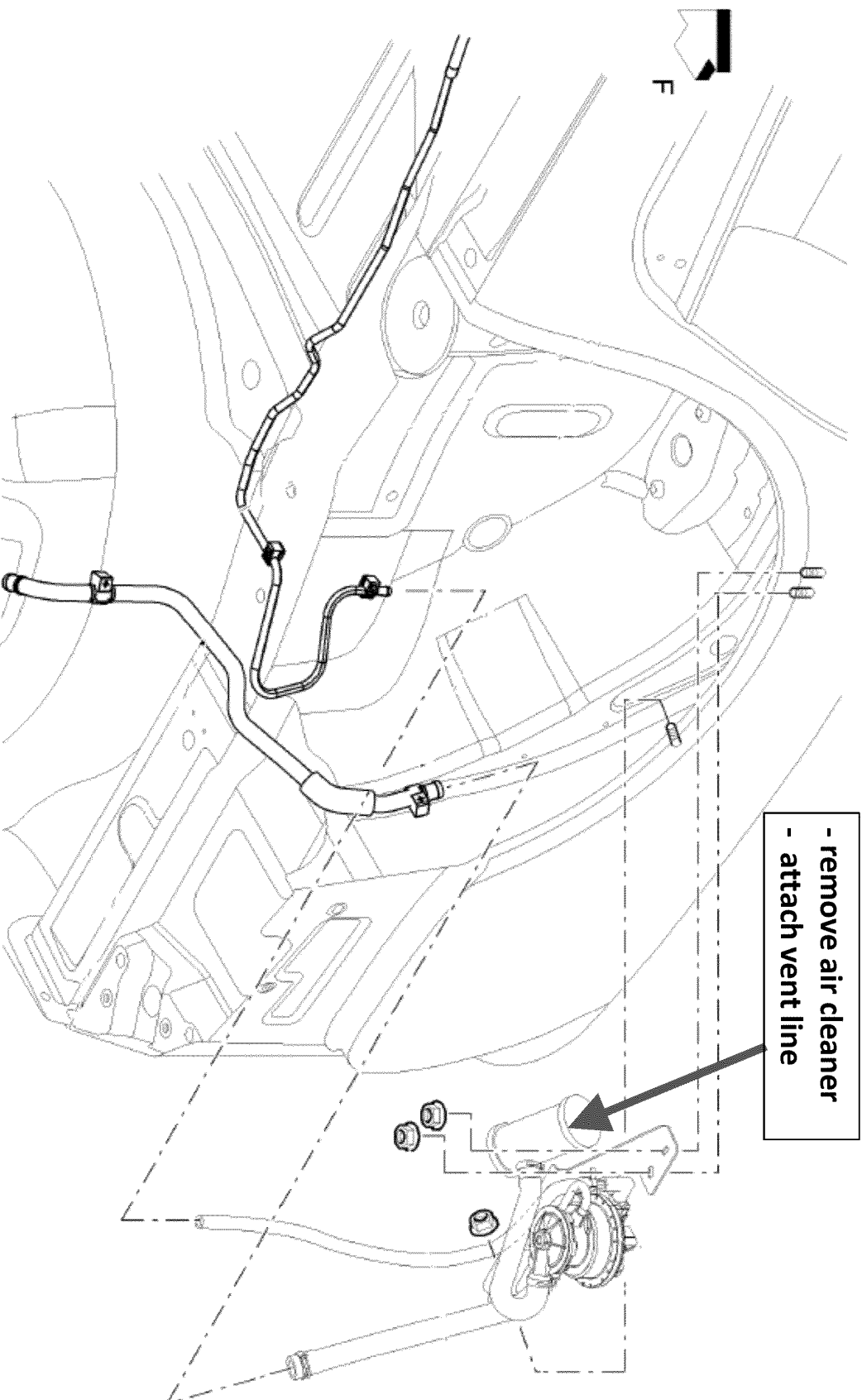


Access to LDP Vent port
in the rear left wheel house.

Audi A4, access to LDP Vent Port – rear left wheelhouse



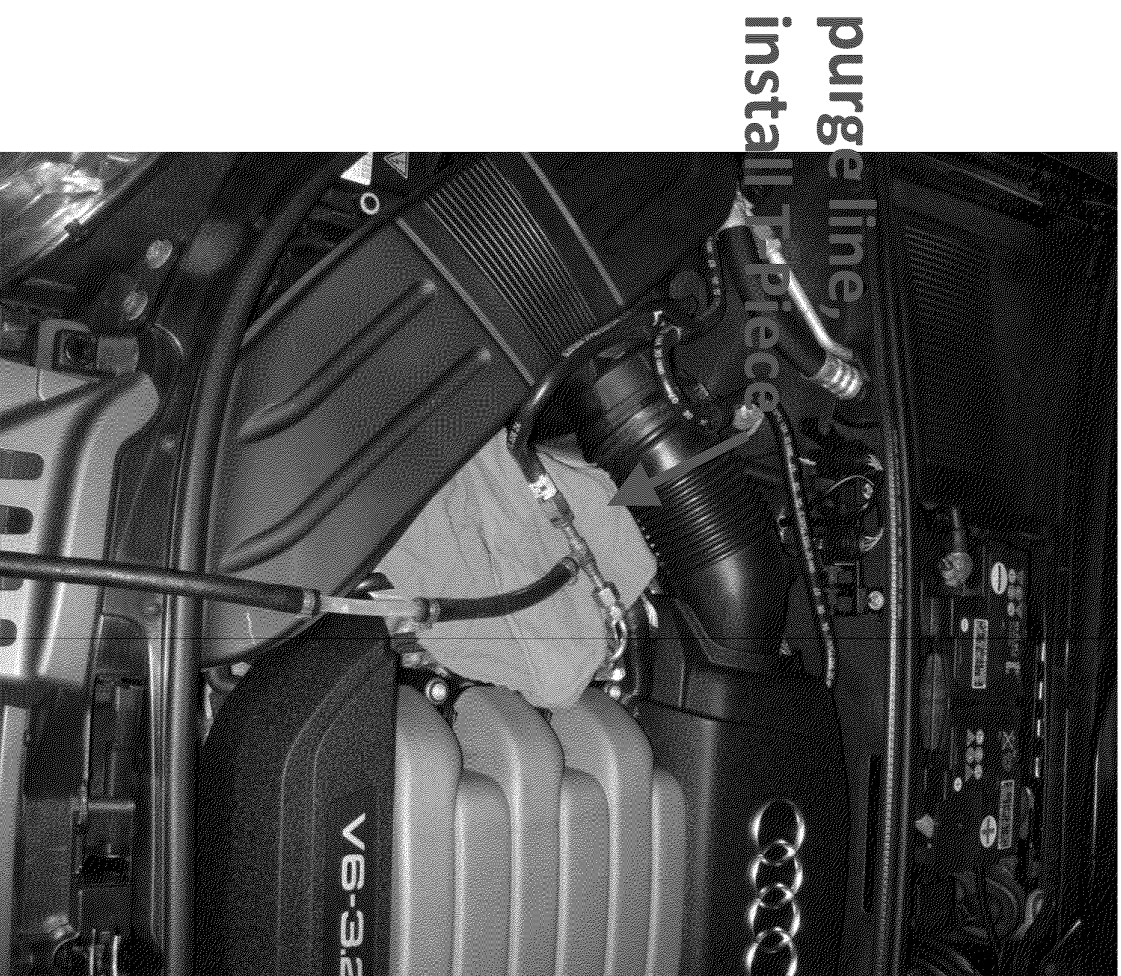
Audi A6 access to LDP Vent Port – rear left wheelhouse



Engine Compartment



Engine Compartment



Engine Compartment



ESP Deactivation

1. With the foot brake applied, turn on the engine
2. The engine will continue to crank until firing.
3. Then press and hold the ESP off button for more than three seconds to switch ESP off.
4. The 'ESP off' symbol will be illuminated continuously in the driver information panel and the text 'ESP/ASR off' will display briefly as a reminder that the car is operating without the benefits of ESC.

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 9/30/2010 7:52:33 PM
Subject: Oil Change interval
[ELSA_MY08_MaintInterval.pdf](#)
[owner's manual service interval-.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Here is another maintenance interval description of our dealer guideline.

I also attached a scan of missing third page.

So there need to be at least one oil change every three month.

I hope that answers your question.

If not let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
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FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

MY 2008 Maintenance Intervals - USA

Service at every 5,000 miles or 1 Year after Last Service

Engine oil / Oil filter ↗ Change oil and replace filter.
 Service reminder indicator display ↗ Reset display.
 Brake system ↗ Check for damage and leaks, thickness of pads, and brake fluid level.
 Wiper blades ↗ Check condition and replace if necessary.
 Windshield wiper and washer/headlight washer ↗ Add fluid if necessary. Check adjustment and function.
 Tires and spare wheel ↗ Check for wear and damage .
 Check tire pressure.
 Rotate tires.

Service at 15,000 miles or 1 Year after Last Service

Engine oil / Oil filter ↗ Change oil and replace filter.
 Service reminder indicator display ↗ Reset display.
 Brake system ↗ Check for damage and leaks, thickness of pads, and brake fluid level.
 Wiper blades ↗ Check condition and replace if necessary.
 Windshield wiper and washer / Headlight washer ↗ Add fluid if necessary. Check adjustment and function.
 Tires and spare wheel ↗ Check for wear and damage .
 Check tire pressure. Check renewal date of tire repair set (where applicable).
 Engine ↗ Check fault memory of on-board diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).
 Battery ↗ Check and replace if necessary.
 Cooling system ↗ Check coolant level and add coolant if necessary.
 Engine compartment ↗ Check for leaks.
 Exhaust system ↗ Check for damage and leaks.
 Underbody ↗ Check for damage and leaks.
 Automatic transmission and final drive ↗ Check for leaks.
 Manual transmission and final drive ↗ Check for leaks.
 Drive shafts ↗ Check boots.
 Front axle ↗ Check for excessive play. Check dust seals on ball joints and tie rod ends (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).
 Doors ↗ Lubricate door check straps and hood latch (Audi A8 and Audi S8 only).
 Rear lid hinges ↗ Lubricate (Audi A8 and Audi S8 only).
 Horn ↗ Check function.
 Lights ↗ Check all lights. Check headlight adjustment (Audi A8 and Audi S8 only).
 Dust and pollen filter ↗ Replace filter.
 Snow screen for air cleaner ↗ Clean (Audi A4, Audi A5, Audi S5, and Audi A6 only).

Road test ⚙️ Check braking, kick⚙️ down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V⚙️ belt and tensioner ⚙️ Check condition and replace if necessary (Audi RS 4 and Audi R8 only).

Service at 25,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage . Check tire pressure.

Service at 35,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage . Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine ⚙️ Check fault memory of on⚙️ board diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8)

Battery ⚙️ Check and replace if necessary.

Cooling system ⚙️ Check coolant level and add coolant if necessary.

Engine compartment ⚙️ Check for leaks.

Exhaust system ⚙️ Check for damage and leaks.

Underbody ⚙️ Check for damage and leaks.

Automatic transmission and final drive ⚙️ Check for leaks.

Manual transmission and final drive ⚙️ Check for leaks.

Drive shafts ⚙️ Check boots.

Front axle ⚙️ Check for excessive play. Check dust seals on ball joints and tie rod ends.

Doors ⚙️ Lubricate door check straps and hood latch.

Rear lid hinges ⚙️ Lubricate (Audi A8 and Audi S8 only).

Horn ⚙️ Check function.

Lights ⚙️ Check all lights. Check headlight adjustment (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Dust and pollen filter ⚙️ Replace filter.

Snow screen for air cleaner ⚙️ Clean (Audi A4, Audi A5,

Audi S5, and Audi A6 only).

Road test ⚙️ Check braking, kick⚙️ down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V⚙️ belt and tensioner ⚙️ Check condition and replace if necessary (Audi RS 4, Audi Q7 3.6L, Audi A8 6.0L, and Audi R8 only).

Spark plugs ⚙️ Replace → Note (Audi A3 3.2L, Audi TT 3.2L, and A8 6.0L only).

Air cleaner ⚙️ Clean the housing and replace the f filter element (Audi RS 4 and Audi A8 6.0L only).

Haldex clutch ⚙️ Change oil (Audi A3 and Audi TT only).

Continuously variable transmission (multitronic™) ⚙️ Change ATF.

S tronic ⚙️ Change oil and replace filter element (Audi A3 and Audi TT only).

Power steering fluid ⚙️ Check fluid level. Add if necessary.

Brake discs ⚙️ Check thickness.

Lights ⚙️ Check all lights via instrument cluster. Check license plate light from the rear of the vehicle (Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8 only).

Interior lights ⚙️ Check all interior lights, glove box compartment illumination, control lights, and MMI (if applicable).

Front sunroof drains (where applicable) ⚙️ Open sunroof to check front water drain and clean if necessary.

Plenum panel ⚙️ Remove cover for plenum panel to check water drains and clean if necessary. (A4, A4 Avant, A4 Cabriolet, S4, S4 Cabriolet, RS4, RS4 Cabriolet, A6, A6 Avant, S6, A8 and S8)

- 1) Spark plug replacement at 35,000 miles or 3 years, whichever occurs first. Thereafter every 40,000 miles (60,000 km) or 3 years, whichever occurs first.

Service at 45,000 miles or 1 Year after Last Service

Engine oil / Oil Filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage. Check tire pressure.

Service at 55,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage . Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine ⚙️ Check fault memory of on-board diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Battery ⚙️ Check and replace if necessary.

Cooling system ⚙️ Check coolant level and add coolant if necessary.

Engine compartment ⚙️ Check for leaks.

Exhaust system ⚙️ Check for damage and leaks.

Underbody ⚙️ Check for damage and leaks.

Automatic transmission and final drive ⚙️ Check for leaks.

Manual transmission and final drive ⚙️ Check for leaks.

Drive shafts ⚙️ Check boots.

Front axle ⚙️ Check for excessive play. Check dust seals on ball joints and tie rod ends (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Doors ⚙️ Lubricate door check straps and hood latch (Audi A8 and Audi S8 only)

Rear lid hinges ⚙️ Lubricate (Audi A8 and Audi S8 only).

Horn ⚙️ Check function.

Lights ⚙️ Check all lights. Check headlight adjustment (Audi A8 and Audi S8 only).

Dust and pollen filter ⚙️ Replace filter.

Snow screen for air cleaner ⚙️ Clean (Audi A4, Audi A5, Audi S5, and Audi A6 only).

Road test ⚙️ Check braking, kick-down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V-belt and tensioner ⚙️ Check condition and replace if necessary (Audi RS 4 and Audi R8 only).

Spark plugs ⚙️ Replace → Note (except Audi A3 3.2L, Audi TT 3.2L, and Audi A8 6.0L).

Air cleaner ⚙️ Clean the housing and replace the filter element (except Audi RS 4, Audi Q7 4.2L, and Audi A8 6.0L).

- 2) Spark plug replacement at 55,000 miles or 6 years, whichever occurs first. Thereafter every 60,000 miles (90,000 km) or 6 years, whichever occurs first.

Service at 65,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage .
Check tire pressure.

Service at 75,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.
Service reminder indicator display ⚙️ Reset display.
Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.
Wiper blades ⚙️ Check condition and replace if necessary.
Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.
Tires and spare wheel ⚙️ Check for wear and damage .
Check tire pressure. Check renewal date of tire repair set (where applicable).
Engine ⚙️ Check fault memory of on-board diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).
Battery ⚙️ Check and replace if necessary.
Cooling system ⚙️ Check coolant level and add coolant if necessary.
Engine compartment ⚙️ Check for leaks.
Exhaust system ⚙️ Check for damage and leaks.
Underbody ⚙️ Check for damage and leaks.
Automatic transmission and final drive ⚙️ Check for leaks.
Manual transmission and final drive ⚙️ Check for leaks.
Drive shafts ⚙️ Check boots.
Front axle ⚙️ Check for excessive play. Check dust seals on ball joints and tie rod ends.
Doors ⚙️ Lubricate door check straps and hood latch.
Rear lid hinges ⚙️ Lubricate (Audi A8 and S8 only) .
Horn ⚙️ Check function.
Lights ⚙️ Check all lights. Check headlight adjustment (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).
Dust and pollen filter ⚙️ Replace filter.
Snow screen for air cleaner ⚙️ Clean (Audi A4, Audi A5, Audi S5, and Audi A6 only).
Road test ⚙️ Check braking, kick-down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.
Ribbed V-belt and tensioner ⚙️ Check condition and replace if necessary (Audi RS 4, Audi Q7 3.6L, Audi A8 6.0L, and Audi R8 only).
Spark plugs ⚙️ Replace (Audi A3 3.2L, Audi TT 3.2L , and A8 6.0L only).
Air cleaner ⚙️ Clean the housing and replace filter element (Audi RS 4, Audi Q7 4.2L, and Audi A8 6.0L only).
Haldex clutch ⚙️ Change oil (Audi A3 and Audi TT only).
Continuously variable transmission (multitronic™) ⚙️ Change ATF (where applicable).

S tronic ⚙️ Change oil and replace filter element (Audi A3 and Audi TT only).

Power steering fluid ⚙️ Check fluid level and add if necessary.

Brake discs ⚙️ Check thickness.

Lights ⚙️ Check all lights via instrument cluster. Check license plate light from the rear of the vehicle (Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8 only).

Interior lights ⚙️ Check all interior lights, glove box compartment illumination, control lights, and MMI (if applicable).

Ribbed V-belt ⚙️ Check condition and replace if necessary. Check tension of belt drive with a manual tensioner and retension if necessary (2.0L, 3.2L, 4.2L FSI, and 5.2L engines only).

Ribbed V-belt ⚙️ Replace (Audi S4 only).

Front sunroof drains (where applicable) ⚙️ Open sunroof to check front water drain and clean if necessary.

Plenum panel ⚙️ Remove cover for plenum panel to check water drains and clean if necessary. (A4, A4 Avant, A4 Cabriolet, S4, S4 Cabriolet, RS4, RS4 Cabriolet, A6, A6 Avant, S6, A8 and S8)

Service at 85,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage. Check tire pressure.

Service at 95,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine ⚙️ Check fault memory of on-board diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Battery ⚙️ Check and replace if necessary.

Cooling system ⚙️ Check coolant level and add coolant if necessary.

Engine compartment ⚙️ Check for leaks.

Exhaust system ⚙️ Check for damage and leaks.

Underbody ⚙️ Check for damage and leaks.

Automatic transmission and final drive ⚙️ Check for leaks.

Manual transmission and final drive ⚙️ Check for leaks.

Drive shafts ⚙️ Check boots.

Front axle ⚙️ Check for excessive play. Check dust seals on ball joints and tie rod ends (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Doors ⚙️ Lubricate door check straps and hood latch (Audi A8 and Audi S8 only).

Rear lid hinges ⚙️ Lubricate (Audi A8 and S8 only).

Horn ⚙️ Check function.

Lights ⚙️ Check all lights. Check headlight adjustment (Audi A8 and Audi S8 only).

Dust and pollen filter ⚙️ Replace filter.

Snow screen for air cleaner ⚙️ Clean (Audi A4, Audi A5, Audi S5, and Audi A6 only).

Road test ⚙️ Check braking, kickdown, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V-belt and tensioner ⚙️ Check condition and replace if necessary (Audi RS 4 and Audi R8 only).

Service at 105,000 miles or 1 Year after Last Service

Engine oil / Oil filter ⚙️ Change oil and replace filter.

Service reminder indicator display ⚙️ Reset display.

Brake system ⚙️ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades ⚙️ Check condition and replace if necessary.

Windshield wiper and washer / Headlight washer ⚙️ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel ⚙️ Check for wear and damage. Check tire pressure.

Timing Belt Replacement at 110,000 miles - 2.0L Engines Only

Replace timing belt. Check condition of timing belt tensioning system, dampening pulleys, and idler pulleys and replace if necessary (2.0L engines only).

Maintenance

Where do I bring my vehicle for service?

Authorized Audi dealers

Audi recommends you take your vehicle only to authorized Audi dealers to ensure that vehicle repairs are performed to the highest specifications. Your authorized Audi dealer has the proper tools and equipment, the staff of trained specialists, and access to the extensive range of parts necessary to properly maintain your vehicle's safety, reliability, and value for years to come.

Audi R8 Service and Repairs

Due to the specialized tools, equipment, and technical training necessary to perform service and repairs on the Audi R8, Audi recommends that all maintenance service and repair work is performed at an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point. Audi will not accept any liability for maintenance service, repair, or any damage resulting from maintenance service or repair performed at a facility that is not an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point. ■

When do I bring my vehicle in for service?

Service intervals

If you are not sure when you should bring your Audi in for service or which services are to be performed on your vehicle, ask your authorized Audi Service Advisor.

Service intervals in miles (kilometers)	
5,000 miles (8,000 km) ^{a)}	Minor Maintenance Service with tire rotation
15,000 miles (25,000 km) ^{b)}	Major Maintenance Service
25,000 miles (40,000 km)	Minor Maintenance Service
35,000 miles (55,000 km)	Major Maintenance Service with additional items
45,000 miles (70,000 km)	Minor Maintenance Service
55,000 miles (85,000 km)	Major Maintenance Service with additional items
65,000 miles (100,000 km)	Minor Maintenance Service
75,000 miles (115,000 km)	Major Maintenance Service with additional items
85,000 miles (130,000 km)	Minor Maintenance Service
95,000 miles (145,000 km)	Major Maintenance Service
105,000 miles (160,000 km)	Minor Maintenance Service
110,000 miles (175,000 km)	Timing Belt Replacement (TT 2.0T front wheel drive and A4 Cabriolet 2.0T only)
125,000 miles (200,000 km)	Minor Maintenance Service with additional item
The time-sensitive maintenance items table contains additional maintenance items	

^{a)} First minor maintenance service at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.



For the sake of the environment

By regularly maintaining your vehicle, you help make sure that emission standards are maintained, thus minimizing adverse effects on the environment. ■

Maintenance service schedule

Minor Maintenance Service

First at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first. Thereafter every 20,000 miles (30,000 km) or two years, whichever occurs first.

Engine oil / Oil filter - Change oil and replace filter.

Service reminder indicator display - Reset display.

Brake system - Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades - Check condition and replace if necessary.

Windshield washer and headlight washing system - Add fluid if necessary. Check adjustment and function.

Tires and spare wheel - Check for wear and damage. Check tire pressure.

AdBlue fluid - Fill completely with fresh fluid (23 liters). (Audi Q7 3.0L TDI only)

Additional item at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.

Rotate tires ■

b) First major maintenance service at 15,000 miles (25,000 km) or 1 year after the first minor service, whichever occurs first. Maintenance Services thereafter occur at 10,000 mile (15,000 km) intervals or 1 year from last service, whichever occurs first (alternating between minor and major services).

The intervals shown in this table are based on vehicles operating under normal conditions. In case of severe conditions, such as extremely low temperatures, excessive dust, etc., it is necessary for certain operations to be carried out in between the given intervals. This applies particularly to engine oil changes and the cleaning or replacing of the air cleaner filter element.

Time-sensitive maintenance items

The following maintenance items contain special time-sensitive service intervals (in addition to mileage intervals where applicable).

Service interval by time (and mileage where applicable)

Service interval by time (and mileage where applicable)	Maintenance item
Every 2 years regardless of mileage (kilometers)	Replace brake fluid (all vehicles)
Every 2 years regardless of mileage (kilometers)	Check cloth top function and roll-over protection with cloth top down (Audi A4 Cabriolet and Audi S4 Cabriolet only)
At 3 years or 35,000 miles (55,000 km), whichever occurs first. Thereafter every 3 years or 40,000 miles (60,000 km), whichever occurs first.	Replace spark plugs (Audi A3 3.2L, Audi TT 3.2L, A4 2.0L TFSI, A5 2.0L TFSI, TTS and Audi A8 6.0L only)
At 6 years or 55,000 miles (85,000 km), whichever occurs first. Thereafter every 6 years or 60,000 miles (90,000 km), whichever occurs first.	Replace spark plugs (all models except Audi A3 3.2L, Audi TT 3.2L, A4 2.0L TFSI, A5 2.0L TFSI, TTS, and Audi A8 6.0L)

Major Maintenance Service

First at 15,000 miles (25,000 km) or two years, whichever occurs first. Thereafter every 20,000 miles (30,000 km) or two years, whichever occurs first.

Engine oil / Oil filter - Change oil and replace filter.

Service reminder indicator display - Reset display.

Brake system - Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades - Check condition and replace if necessary.

Windshield washer and headlight washing system - Add fluid if necessary. Check adjustment and function.

Tires and spare wheel - Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

AdBlue fluid - Fill completely with fresh fluid (23 liters). (Audi Q7 3.0L TDI only)

Engine - Check fault memory of on-board diagnostic system (Audi A3, A4 Cabriolet, S4, A6, S6, A8, and S8 only).

Battery - Check and replace if necessary.

Cooling system - Check coolant level and add coolant if necessary.

*Engine compartment - Check for leaks.

Exhaust system - Check for damage and leaks.

Underbody - Check for damage and leaks.

Automatic transmission and final drive - Check for leaks.

Manual transmission and final drive - Check for leaks.

Drive shafts - Check boots.

Front axle - Check for excessive play. Check dust seals on ball joints and tie rod ends (Audi A3, A4 Cabriolet, S4, A6, S6, A8 & S8 only).

Doors - Lubricate door check straps and hood latch (Audi A8 and S8 only).

Rear lid hinges - Lubricate (Audi A8 and S8 only).

Horn - Check function.

Lights - Check all lights. Check headlight adjustment (Audi A8 and S8 only).

Dust and pollen filter - Replace filter.

Snow screen for air cleaner - Clean (Audi A4, A5, S5, and A6 only).

Road test: Check braking, kick-down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V-belt and tensioner - Check condition and replace if necessary (Audi R8 only).

Fuel filter - Remove water (Audi Q7 3.0L TDI only)

Plenum Panel- Clean if dirty (except A3 and Audi Q5) ■

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TFSI, TT:

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 9/30/2010 8:10:08 PM
Subject: Re: Oil Change interval
sebastian.berenz@vw.com

Hi, Sebastian.

Thank you. This is very helpful.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 09/30/2010 04:01 PM
Subject: Oil Change interval

Hello Lynn,

Here is another maintenance interval description of our dealer guideline.
I also attached a scan of missing third page.

So there need to be at least one oil change every three month.

I hope that answers your question.

If not let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

[attachment "ELSA_MY08_MaintInterval.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "owner's manual service interval-.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 10/7/2010 1:12:32 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0055C (2008 Audi/A6) - **Ex. 6** 1000 vehicle pick up on 10/13/10
(Wednesday)

N001RXX-0018C (2008 Audi/A4) - **Ex. 6** 0830 vehicle pick up on 10/14/10
(Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 10/7/2010 1:58:33 PM
Subject: RE: EPA's Confirmatory Maintenance Form
[N001 maintenance before FTP.doc](#)
[FilterReplaceProc.pdf](#)
[FluidCapacity.pdf](#)
[OilFilterAssem.pdf](#)
[OilLevelCheck.pdf](#)

Hi, Sebastian.

We noticed that the pressure for the radiator cap is higher than that for the radiator system. This is the opposite of what we usually see because most manufacturers want the radiator to release pressure before the radiator system. I just wanted to confirm that this is correct.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 09/22/2010 09:35 AM
Subject: RE: EPA's Confirmatory Maintenance Form

Hello Lynn,

Attached you will find your questionnaire with my added details.
Further I have attached a description for the oil change, specifications for the oil and coolant and how to change the filter.

Let me know if you have any questions on this or need something additionally.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.

3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, September 22, 2010 8:26 AM
To: Berenz, Sebastian
Subject: Fw: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you can send me?

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
Date: 08/25/2010 04:20 PM
Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide.
I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: N001c-002c TELEPHONE QUESTIONNAIRE.doc)(See attached
file: N001 maintenance before FTP.doc)

IN-USE TESTING
MAINTENANCE BEFORE FTP

VEHICLE CONTROL # _____ VIN _____

VEHICLE MODEL _____ ENGINE FAMILY _____

ENGINE CODE/CALIBRATION _____ TRANSMISSION _____
(Speeds if-M/T)

ODOMETER _____ EVAP FAMILY _____

DATE _____ TIME _____ FUEL TYPE _____

NOTE: If any of the following items are not applicable to the vehicle being inspected, mark N/A.

1. Record the following information:

- a. Vehicle build date _____
- b. Actual tire sizes Left Front _____ Right Front _____
Left Rear _____ Right Rear _____
- c. GWR _____ Front _____ Rear _____ e. COLOR: Exterior _____
- d. Recall campaign sticker / / YES / / NO Interior _____
- Recall campaign number from sticker _____
- None found _____

2. Inspect the fuel filler neck for the presence of, and/or damage to the unleaded fuel restrictor. Use leaded nozzle to determine if restrictor is operational.

_____ ok
_____ damaged, describe _____
_____ not present

REJECT IF RESTRICTOR IS DAMAGED OR LEADED NOZZLE FITS INTO FUEL FILLER NECK

3. Remove a sample of fuel from the tank and deliver to chem. lab for analysis. _____

4. Determine the axle ratio; make 10 wheel revolutions (applicable to rear-drive only).

(no. of driveshaft revolutions X2) = _____ X 2 = _____

(no. of wheel revolutions) 10

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

5.

Check brakes for excessive drag. Adjust if necessary.

_____ brake drag ok

_____ excessive brake drag (adjusted)

6. Inspect catalyst body, if so equipped, for discoloration, signs of damage, bulges, burn-out or evidence of plug removal.

_____ catalyst ok

other (describe) _____

7. Record the following part numbers.

Catalyst _____ PROM _____

TPS Sensor _____ PCV valve _____

Throttle body _____ ECM (computer) _____

O2 Sensor _____ EGR valve _____

8. a. Record trouble codes MIL or pending codes in vehicle's computer system at beginning of EPA maintenance: _____

b. Readiness Tests

Catalyst _____ Evap System _____

Secondary Air _____ O2 Sensor _____

O2 Sensor Heater _____ EGR system _____

c. At the time during the maintenance, is the MIL on?

9. a. Check cooling system, both radiator and reservoir (if applicable) for coolant and fill if necessary.

Reservoir

_____ level ok

_____ level low _____ coolant added _____ (amount)

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Radiator

_____ level ok
_____ level low _____ coolant added _____ (amount)

b. Check coolant condition, replace if poor.

_____ coolant condition ok
_____ coolant condition poor, (specify) _____
_____ coolant replaced

c. Perform the following pressure checks:

Radiator cap pressure check; pressure applied: (need pressure) bar

VW: **1.4... 1.6 bar**
 20.3...23.2 psi

_____ no leakage
_____ cap leaks
_____ cap does not release pressure
_____ cap replaced

Radiator pressure check; pressure applied: (need pressure) bar

VW: **1.0 bar**
 14.5 psi

_____ no leakage
_____ hoses and clamps ok
_____ radiator leaks
_____ leakage repaired

d. freeze protection level _____

TBD spec = -## degrees at ##% mixture adjusted to _____

VW:

Coolant (40 %) and water (60 %) for temperature down to -25 °C / -13F.

Coolant (50 %) and water (50 %) for temperature down to -35 °C / -31F.

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Coolant (60 %) and water (40 %) for temperature down to -40 °C/ -40F.

10. Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose

_____ belt (s) ok

_____ belt (s) adjusted or replaced, specify

11. Visually inspect battery for electrolyte level. If level is low add distilled water.

_____ level ok _____ level low _____ Water added

/ / Maintenance free battery (if equipped with an indicator, record observation).

12. Check the power steering fluid and add if necessary.

_____ not applicable

_____ level ok

_____ level low

_____ fluid added _____ (amount)

13. Visually inspect the vehicle for:

- a. Signs of obvious tampering.

_____ none found

_____ yes

Describe _____

- b. Fuel system plug (s). Plug location: _____

_____ all present and intact

_____ plug (s) missing; Describe _____

14. Check all fuel system linkages for free operation. (throttle linkages.)

_____ Free operation

_____ Sticking, binding, etc.; describe

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC

MANUFACTURER REPRESENTATIVE

EPA REPRESENTATIVE

____ Repaired, describe _____

15. Check the condition of the hoses of the following systems for cuts, cracks, or hardening. Check for correct routing of hoses. Check function where indicated, repair if appropriate.

a. Air cleaner hoses.

_____ correctly routed, ok condition

_____ air cleaner door functional

_____ not ok, specify _____

_____ repaired or replaced, describe _____

b. Spark timing control hoses.

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

c. Crankcase emission control hoses.

_____ correctly routed, ok condition

_____ air moves through PCV system

_____ not ok, specify _____

_____ repaired or replaced, describe _____

d. EGR system hoses.

_____ correctly routed, ok condition

rpm required for movement _____ rpm

_____ not ok, specify _____

_____ repaired or replace, describe _____

e. Evaporative emission system hoses.

_____ correctly routed, ok condition, vent and purge functions OK

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

_____ no ok, specify _____

_____ repaired or replaced, describe _____

f. Air injection system hoses.

_____ not applicable

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ / MANUFACTURER REPRESENTATIVE _____ / EPA REPRESENTATIVE _____

g. Speed control system.

/ / O.E. system / / non-O.E. system / / not applicable

For O.E. system:

_____ correctly routed, ok condition

_____ not ok, specify _____

_____ repaired or replaced, describe _____

For non-O.E. system:

/ / System disconnected at throttle

h. List problems found with any other vacuum hoses.

_____ no other problems found

_____ problems found, specify _____

Action taken _____

16. Start engine Time _____

Engine warm Time _____

(Vehicles equipped with an electric cooling fan should be run until fan operates)

Electric cooling fan operates YES / / NO / / Not equipped / /
with an electric cooling fan

If NO, describe _____

17. Check the automatic transmission fluid level and add if necessary.

_____ not applicable _____ level low

_____ level ok _____ fluid added

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

18. Check electrical wiring for proper connections and integrity of wires (idle solenoid, ignition and spark control, engine temperature switches, sensors, etc.).

_____ wiring ok
 _____ not ok, specify _____
 _____ repaired or replaced, describe _____

19. Exhaust System

- a. _____ Drain holes plugged in exhaust system
 _____ Not applicable
- b. Check exhaust system for leaks with engine running.
 _____ No leaks
 _____ System leaks; location _____
 _____ Leaks repaired; describe _____

20. a. Remove all spark plugs. See emission label to determine if plug is O.E. Record the information for the plug(s) removed.

Specified O.E. make and number _____

Specified gap _____

b. Check compression

Compression Spec. please provide

(Always use a fully charged battery to obtain engine speed of 250 rpm or more)

VW: new 11.0... 14.0 bar
min. 10 bar
difference between cylinder max. 3.0 bar

Cylinder No.	Brand	Part No.	Gap	Condition	Compression
1	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

9 of 14 2008 Audi A4 and A6 8AD XV03.1374 Confirmatory Class #:N001c/N002cRXX-____
 4 _____
 5 _____
 6 _____

If actual plugs are non-O.E., are they equivalent to O.E.?

_____ yes _____ no _____ Unknown _____ Not Applicable

Replace ALL plugs with O.E. plugs.

List brand and type of new plugs installed: _____

21. Check valve clearances (if applicable) and adjust if necessary. See VECI label (ONLY IF RECORDS SHOW THAT ROCKER ARM OR LIFTERS HAVE BEEN REMOVED OR REPLACED)

Spec: Spec:
 Intake _____
 (Other) _____
 Exhaust _____

	1	2	3	4	5	6	7	8
As Received:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____
Set to:								
Intake	_____	_____	_____	_____	_____	_____	_____	_____
Exhaust	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____

22. Check the following to determine whether they are non-O.E. parts and their condition. Replace any found to be excessively worn, or dirty, or fouled, or if parts are not equivalent to O.E. Also, replace parts for which removal necessitates replacement.

NOT
 O.E. NON.-O.E. APPL. CONDITION MAINTENANCE
 ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

a. air filter _____

NOTE: Manufacturer recommended air cleaner filter is: _____

b. oil filter _____

c. fuel filter _____

d. ignition wires _____

e. distributor cap _____

f. distributor rotor _____

g. PCV valve _____

h. PCV filter _____

i. air conditioner _____

j. fuel filler cap _____

k. List below any other non-O.E. parts found in the visual check and their condition and maintenance _____ None Non-O.E. _____

NOTE: Manufacturer recommended air cleaner filter is: What is the recommended air cleaner?

VW:

for AUDI A6: 4F0 133 843

For AUDI A4: 06C 133 843

23. a. Check oil level.

_____ oil level ok

_____ oil level below ½ qt.

b. Replace oil and filter as recommended by manufacturer:

#W## GF# oil; engine oil filter: _____

VW:

VW 50200 oil

5W40

5W30

0W40

_____ oil and oil filter replaced

24. For LDTs only (#24 and #25)

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

Do only if the truck has over _____ miles or is over _____ months old.

Is the EGR maintenance light on? Yes _____ No _____

If the EGR light is on and the maintenance has not been performed previously by the owner (from the owner's records), perform the following :

25. Verify if O2 maintenance has been performed (from owner's records)

Yes _____ No _____

If yes, when? _____

If O2 maintenance has not been performed, perform the following:

Additional maintenance items to be performed:

26. Start engine Time _____

Engine warm Time _____

27. Preparation for parameter set.

_____ engine at normal operating temperature

_____ accessory equipment off

PERFORM THE FOLLOWING CHECKS AND ADJUSTMENTS ACCORDING TO THE PROCEDURES AND INSTRUCTIONS SPECIFIED ON THE EMISSION LABEL AND/OR THE SHOP MANUAL.

28. Check idle ignition timing and adjust if necessary.

gear setting _____

as received _____ at _____ rpm

spec.* _____ at _____ rpm

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____ MANUFACTURER REPRESENTATIVE _____ EPA REPRESENTATIVE _____

set to _____ at _____ rpm
*See VECI label and/or shop manual.

29. Check and adjust, if necessary, the idle speed(s) settings.

Idle speed adjustment plugs present / /yes / / no / / N/A

If idle is out of spec. see VECI label and/or shop manual.

- a. Curb idle speed

gear setting _____ observed _____ rpm

spec.* _____ rpm set to _____ rpm

*See VECI label and/or shop manual

- b. TPS output voltage. (Curb idle speed)

observed _____ vdc

Spec. _____

30. List any comments relevant to the inspection performed on this vehicle:

31. Record Trouble Codes (after M-2)

32. Attach any special procedures to this form.
Special procedures attached? Y / N

Time completed _____

Date _____

Signature of mechanic and observers:

MECHANIC _____

EPA REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC _____

MANUFACTURER REPRESENTATIVE _____

EPA REPRESENTATIVE _____

MANUFACTURER REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MECHANIC MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE

[illegible]

MECHANIC	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE
1. Name		
2. Address		
3. City		
4. State		
5. Zip		
6. Phone		
7. Fax		
8. E-mail		
9. Business Hours		
10. Signature		
11. Title		
12. Date		

Engine Oil, Draining and Replacing Oil Filter



WARNING

Oil extraction not permitted with various engine types!



Note

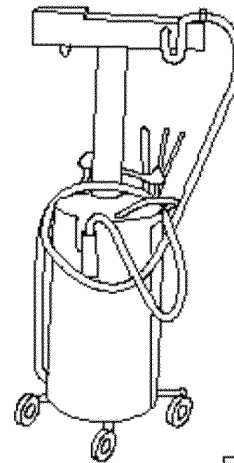
Perform oil change at operating temperature.

Special tools and workshop equipment required

Oil Extractor 1782

Tension Band 2171

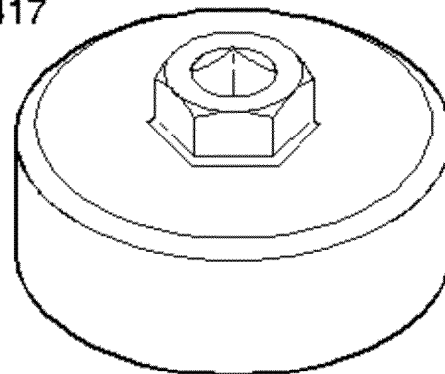
V.A.G 1782



W00-10211

Oil Filter Key 3417

3417



W00-0408

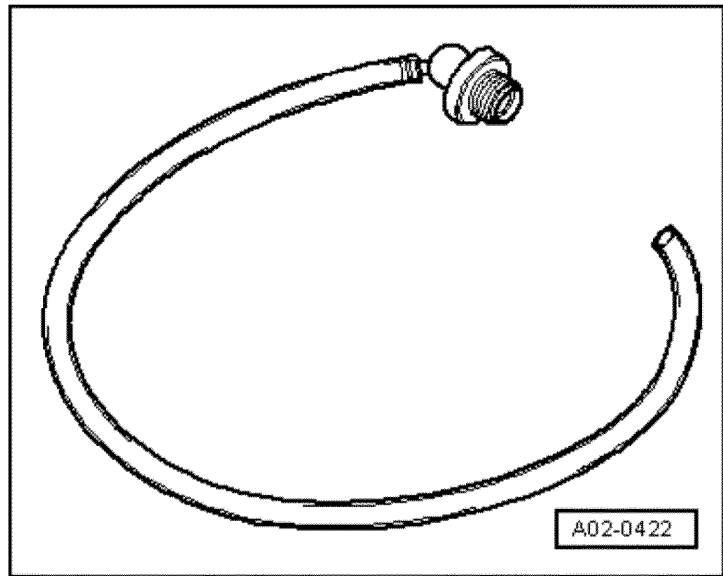
Oil Drain Adapter 40057 (2.0 TFSI)



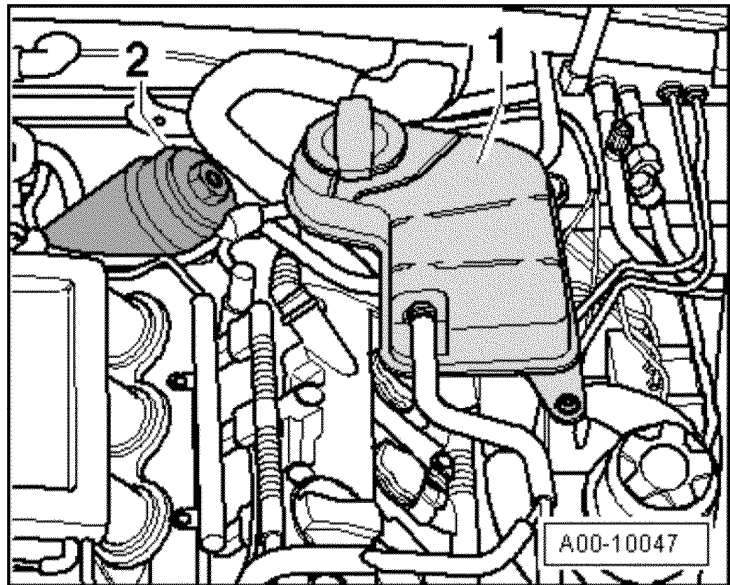
Note

Observe waste disposal regulations!

V6 3.0L TFSI and 3.2L FSI

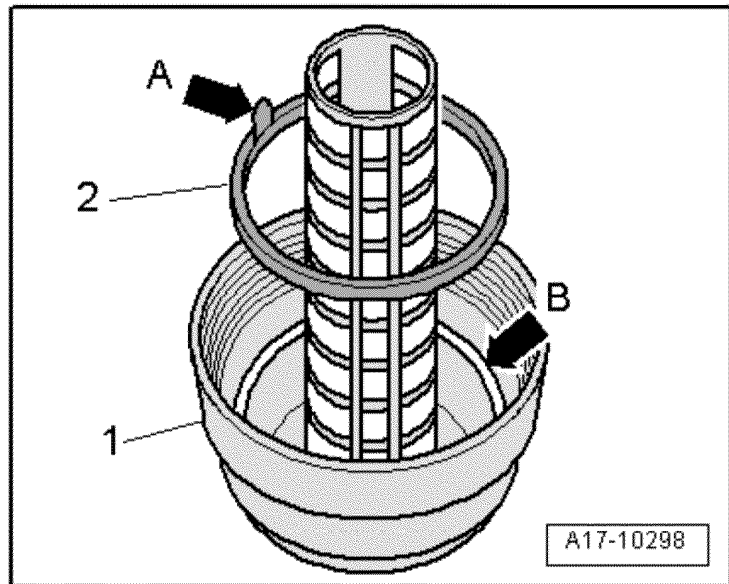


- Remove coolant reservoir 1 and lay aside.
- Remove oil filter cover with SW 36 2.
- Clean sealing surfaces oil filter cover and at oil filter housing.
- Replace oil filter insert.



Sealing ring on cap, replacing

- Remove sealing ring at pull tab 1 arrow A from cap 1.
 - Insert new sealing ring 2 with semicircular profile in groove 1 arrow B on cap.
- 1 The pull tab 1 arrow A must face upward.
 - 1 Smooth side of sealing ring 2 must face toward outside



O-ring, inserting in oil filter housing

- Insert O-ring (2) in groove (1) arrow (B) on oil filter housing (1).

Note

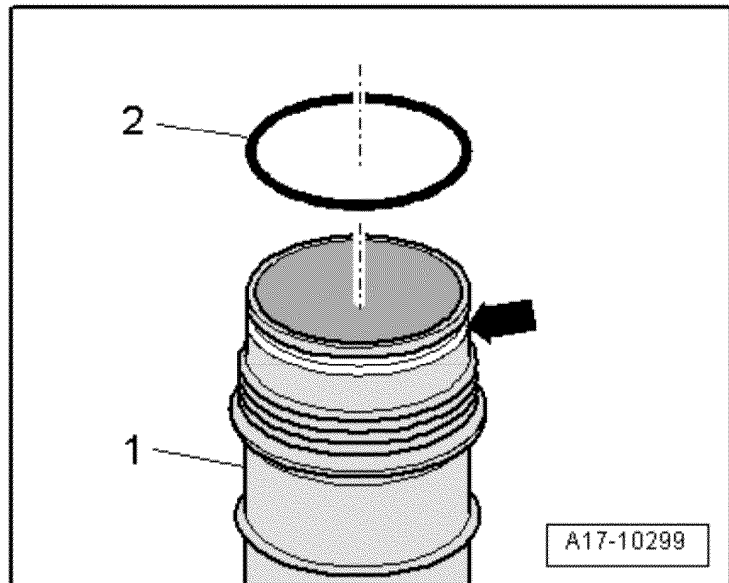
Observe waste disposal regulations!

- Engage new oil filter insert in oil filter cover.
- Install oil filter cover (3).
- Install coolant reservoir.
- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.

Note

Oil drain plug is installed without seal.

Check for cleanliness.



Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	30

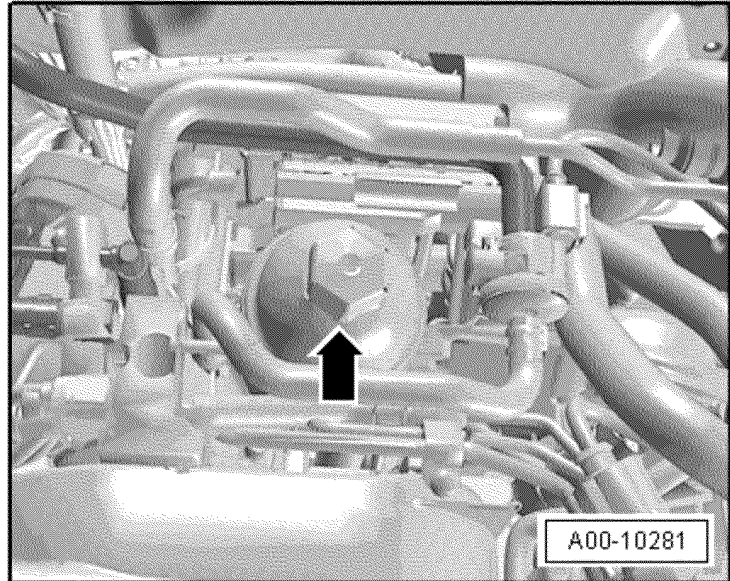
- Fill motor oil. Refer to → Chapter „Engine Oil, Filling“

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

V8 BVJ

- Remove the oil filter cover with a Socket Wrench [SW 32] [arrow]
- Clean sealing surfaces oil filter cover and at oil filter housing.



- Replace O-rings [2] and [4] and filter component [3]

Note

By removing the filter element, a valve is opened that allows the oil in the filter housing to flow automatically back into the crankcase.

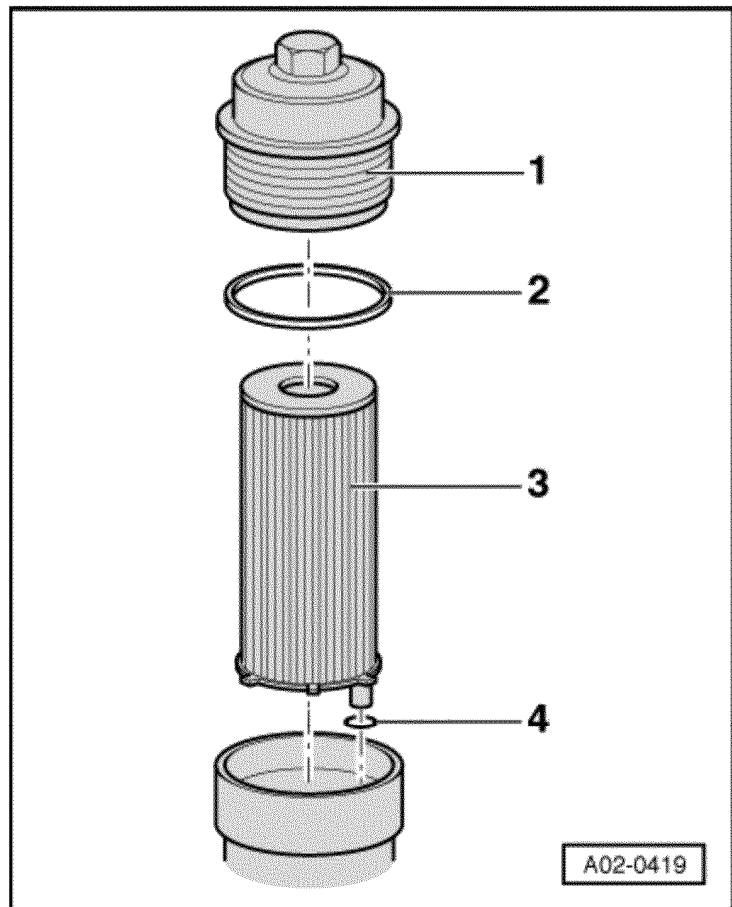
Observe installation position of tab on oil filter.

Observe waste disposal regulations!

- Insert new oil filter in filter housing
- Install new O-ring [2] and lubricate lightly.
- Install oil filter cover [1]
- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.

Note

Install oil drain plug with new gasket.



Check for cleanliness.

Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	25

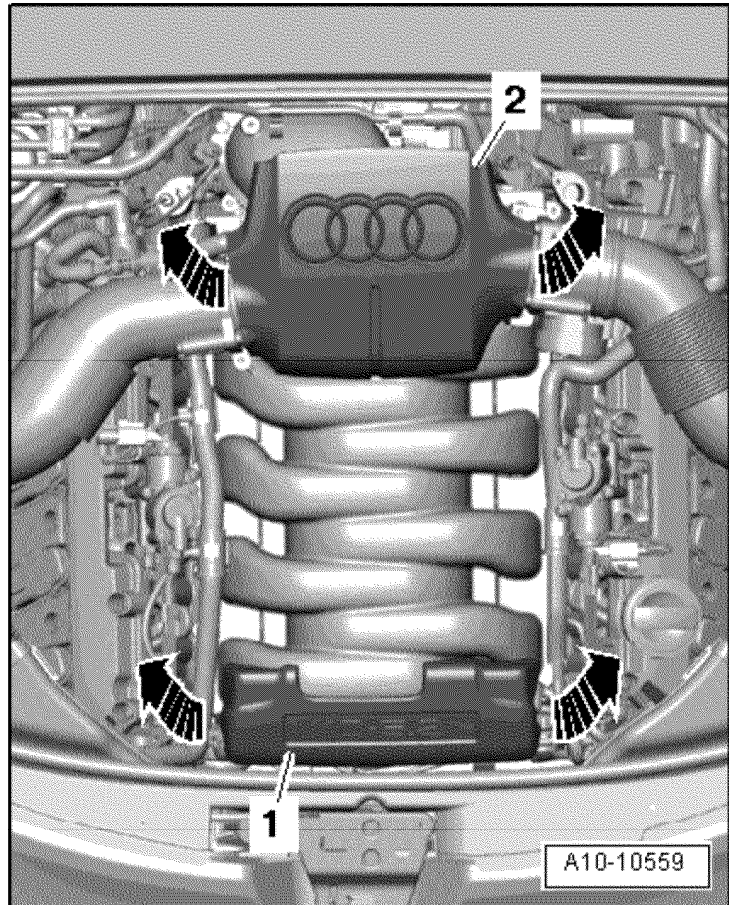
- Fill motor oil. Refer to → Chapter „Engine Oil, Filling“.

For oil specifications and capacities, refer to

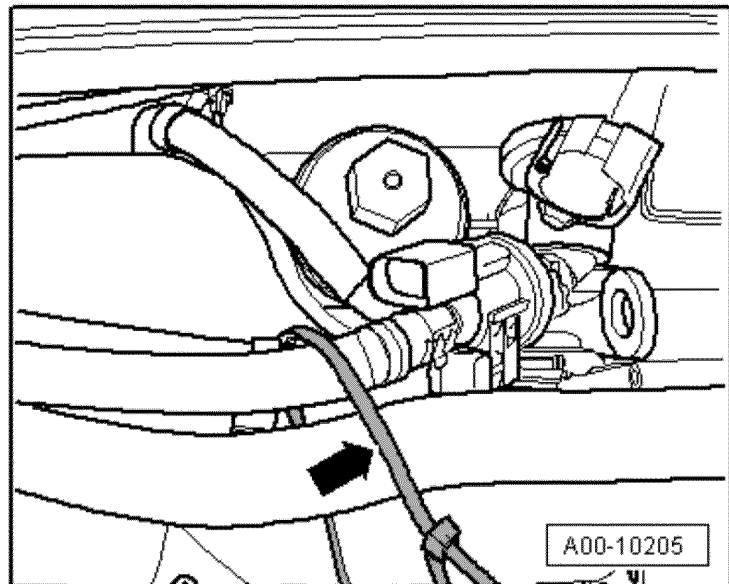
→ Fluid Capacity Tables; Rep. Gr.03;

5.2L FSI

- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“
- Open oil drain plug and drain engine oil.
- Install oil drain plug with new gasket.
- Remove rear engine cover [2] [arrows]
- Remove EVAP valve from bracket and lay aside.



- Secure EVAP line, permanent ventilation line and sound pipe line at front with cable ties.



- Loosen cover 1 AF 32.
- Remove filter component 3
- Replace O-rings 2 and 4 and filter element 3

Observe installation position of tab on oil filter.

- Fill with engine oil.

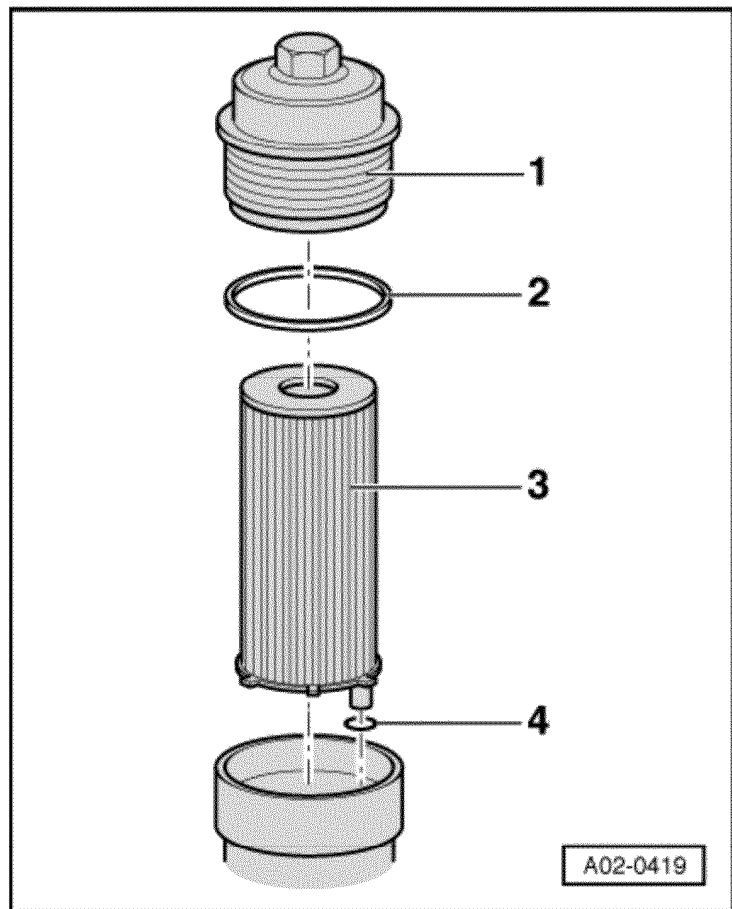
For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

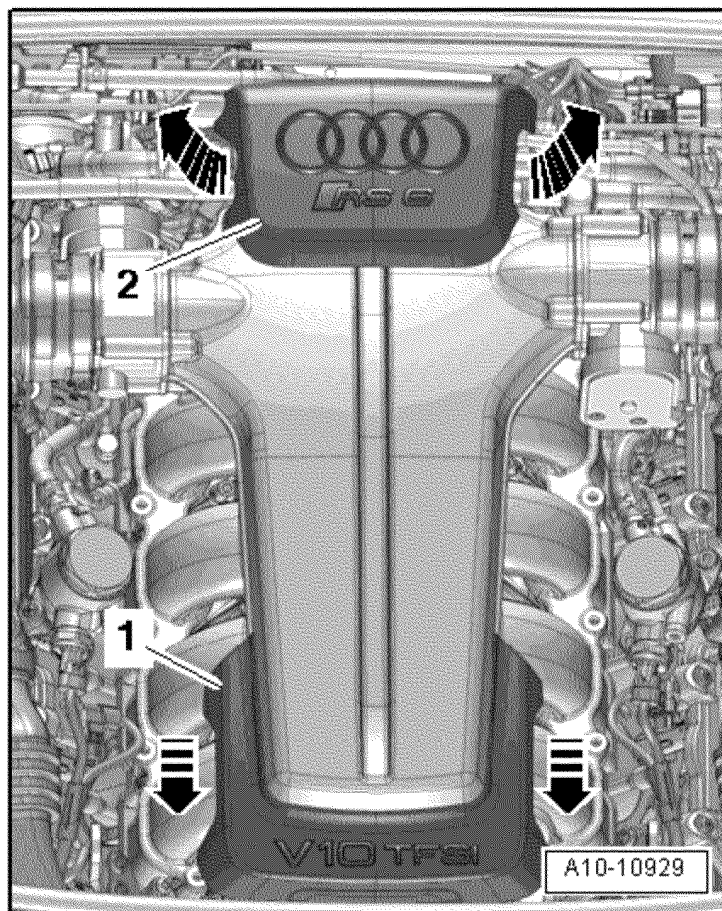


Note

Observe waste disposal regulations!

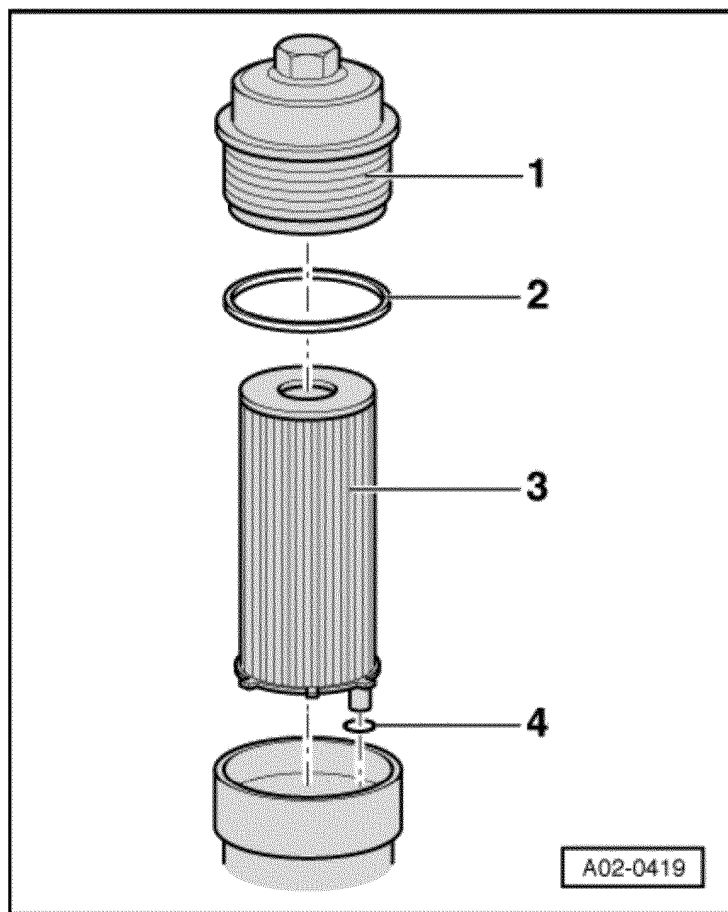


Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug	25

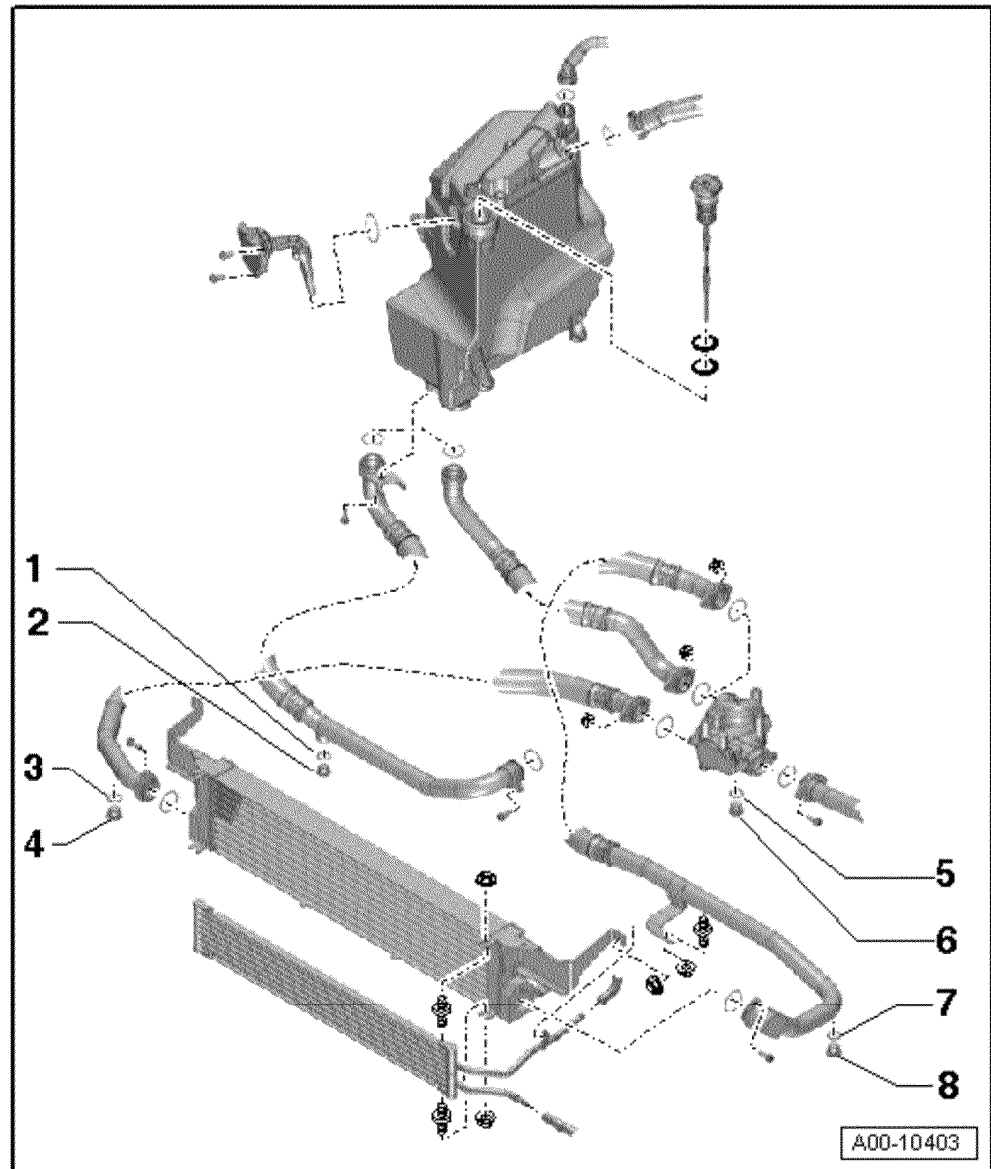
V10 TFSI, RS 6



- Remove rear engine cover [2] toward the rear [arrows]
- Free up the oil filter housing cover [1]
- Loosen cover [1] AF 32.
- Remove filter component [3]
- Replace O-rings [2] and [4] and filter element [3]

Observe installation position of tab on oil filter.



- Remove noise insulation. Refer to → Chapter „Noise Insulation, Removing“



- Open the oil drain plugs 2, 4, 6 and 8 and drain the oil.
- Open oil drain plug  and drain engine oil.
- Install the oil drain plug with a new gasket.
- Remove any remaining oil the oil pan using an oil extractor .



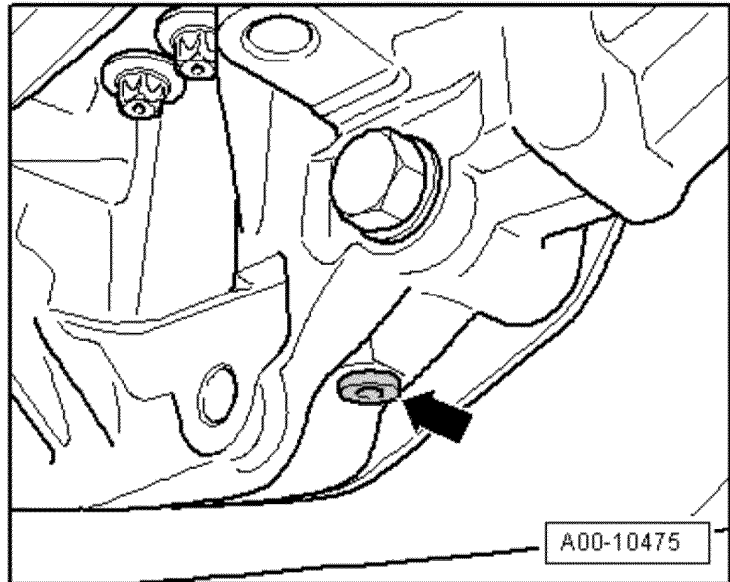
Note

The number of oil drain plugs will vary between 2 (only on the oil pipes) and 5 depending on the vehicle and engine versions.

**WARNING**

Pay attention to the tightening specifications.

Always pay attention to the instructions when filling the engine oil. Refer to → Chapter „Engine Oil Filling, RS 6“.



Tightening Specifications	Nm
Oil filter cover	25
Thermostat housing drain plug	25
Drain plugs on the oil tubes	40
Drain plug on the control housing	12 +/-0.5

- Fill the engine oil. Refer to → Chapter „Engine Oil Filling, RS 6“

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

**Note**

Observe waste disposal regulations!

Audi A6/S6



Caution

All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.

Refer to Technical Bulletin 2010043 for engine oils meeting the required Audi oil quality standards.

Part numbers are for reference only. Always check with your parts department for the latest information.

Component/System		Capacity	Part Number/Specification
3.2 L Engine			
	Oil and Filter Change	6.5 L (6.9 qt.)	VW 502 00
	Coolant	9.6 L (10.1 qt.)	G 012 A8G
4.2 L Engine			
	Oil and Filter Change	9.1 L (9.6 qt.)	VW 502 00
	Coolant	12.0 L (12.7 qt.)	G 012 A8G
5.2 L Engine			
	Oil and Filter Change	10.0 L (10.6 qt.)	VW 502 00
	Coolant	15.0 L (16.0 qt.)	G 012 A8G
Continuously Variable Transmission 01J			
	Initial Fill	7.5 L (7.9 qt.)	G 052 180 A2
	Refill	4.5 - 5.0 L (4.8 - 5.3 qt.)	
	Front Final Drive	1.3 L (1.4 qt.)	G 052 190 A2
6 Speed Automatic Transmission 09L			
	Initial Fill	9.8 L (10.3 qt.)	G 060 162 A2
	Refill	8.0 L (8.5 qt.)	

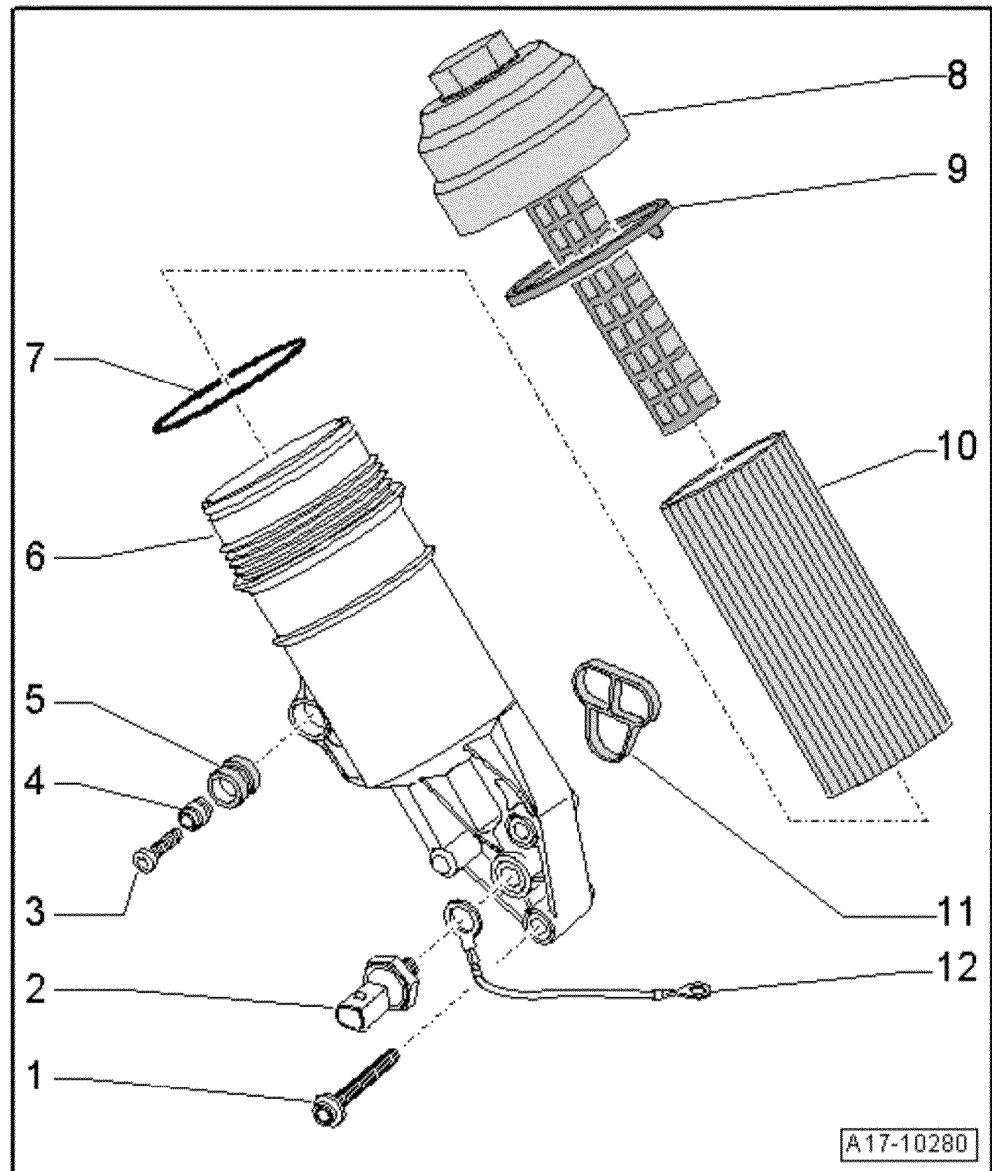
	Front Final Drive	1.1 L (1.2 qt.)	G 052 145 S2
	Transfer Case	0.6 L (0.6 qt.)	G 055 145 A2
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	G 052 145 S2
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	
6 Speed Automatic Transmission 09E			
	Initial Fill	10.4 L (11.0 qt.)	G 055 005 A2
	Refill	10.0 L (10.6 qt.)	
	Front Final Drive	1.1 L (1.2 qt.)	G 055 145 S2
	Transfer Case	1.2 L (1.3 qt.)	
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	
Brake System			
	-	1.0 L (1.1 qt.)	G 000 750
A/C System			
	Refrigerant	530 ± 20 g (18.7 ± 0.7 oz.)	See ETKA
	PAG Oil	130 ± 10 cc (4.4 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	-	4.8 L (5.1 qt.)	G 052 164

edition-061110

Oil Filter Housing Assembly Overview

Vehicles through 04.2005

- 1 - 13 Nm
2 - Oil pressure switch - F1-



Black insulation
checking → Chapter „Oil Pressure, Checking“
Removing and installing → Chapter
Tighten to 20 Nm.

- 3 - 13 Nm
4 - Sleeve
5 - Rubber grommet
6 - Oil filter housing

with filter by pass valve 3.0 bar
 with oil check valve
 Oil check valve cannot be replaced
 Removing and installing → Chapter

7 - O-ring

Replace
 inserting → Fig.

8 - Cover - 25 Nm

9 - Seal

Replace
 Removing and installing → Fig.

10 - Oil filter element

Removing and installing

→ Booklet405

11 - Gasket

Replace

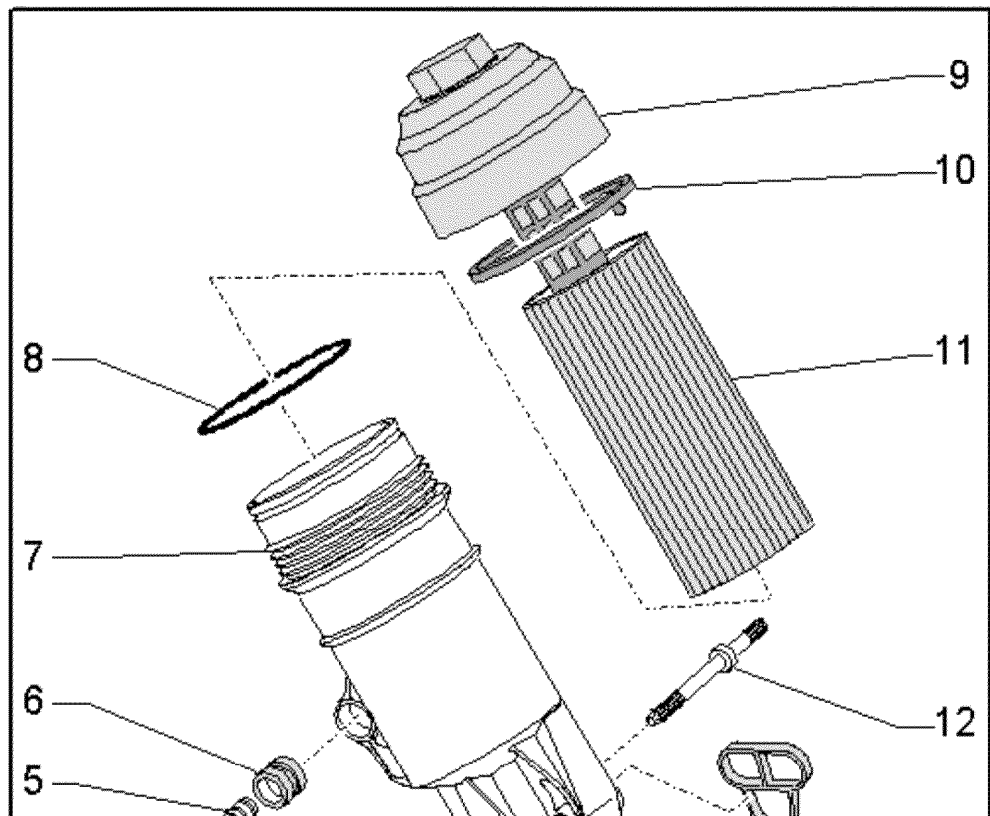
12 - Seal with ground (GND) wire

Replace

Vehicles from 05.2005

1 - 13 Nm

2 - Oil
 pressure
 switch -
 F1-



Tighten to 20 Nm.

Black insulation

Removing and installing, refer to → Chapter „Oil Pressure Switch“

Checking → Chapter „Oil Pressure, Checking“

3 - Multi-point socket head union nut - 13 Nm

4 - 13 Nm

5 - Sleeve

6 - Rubber grommet

7 - Oil filter housing

With filter by&pass valve 3.0 bar

With oil check valve

Oil check valve cannot be replaced

8 - O-ring

Replace

Inserting, refer to → Fig. „O&ring, Inserting on Oil Filter Housing“

9 - Cover - 25 Nm

10 - Seal

Replace

Removing and installing, refer to → Fig. „Sealing Ring on Cap, Replacing“

11 - Oil filter element

Removing and installing, refer to

→ Booklet405

12 - Stud bolt - 16 Nm

13 - Gasket

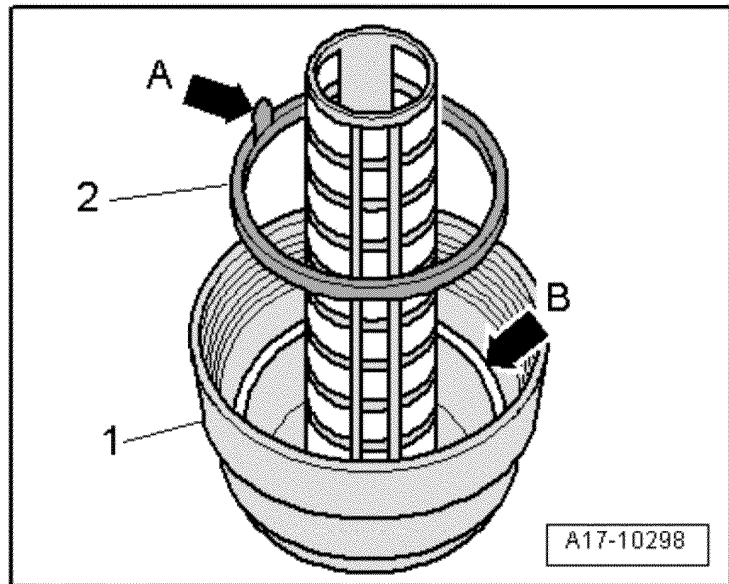
Replace

14 - Seal with Ground (GND) wire

Replace

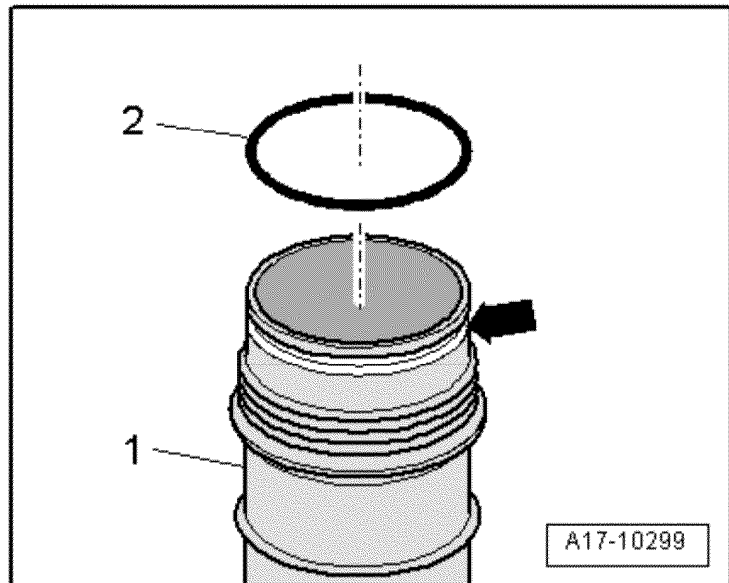
Sealing Ring on Cap, Replacing

- Remove sealing ring & at pull tab & from cap &.
- Insert new sealing ring with semicircular profile in groove & arrow B& on cap.
- 1 The pull tab & must face up.



O-ring, Inserting on Oil Filter Housing

- Insert O-ring (2) in groove (B) on oil filter housing (1).



Engine, Checking Oil Level

NOTE

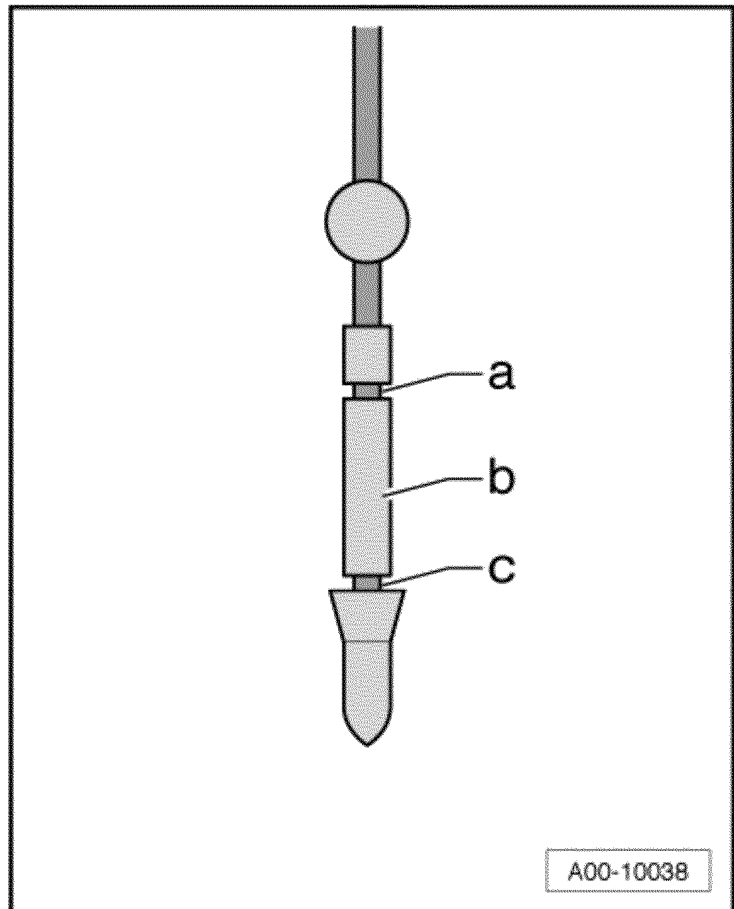
Minimum engine oil temperature 140°F (60°C).

Vehicle must be in level position.

After stopping engine, wait a few minutes to allow oil to flow back into oil pan.

- Pull out oil dipstick and wipe with clean rag. Replace dipstick and push down to stop.
- Pull out dipstick again and read oil level.

Markings on dipstick:



- a - Oil must not be topped off.
- b - Oil can be topped off. This will cause the oil level to be in area -a-.
- c - Oil must be topped off. It is sufficient when oil level is in area -b- (grooved field).

NOTE

Oil level must not exceed -a- mark on dipstick.

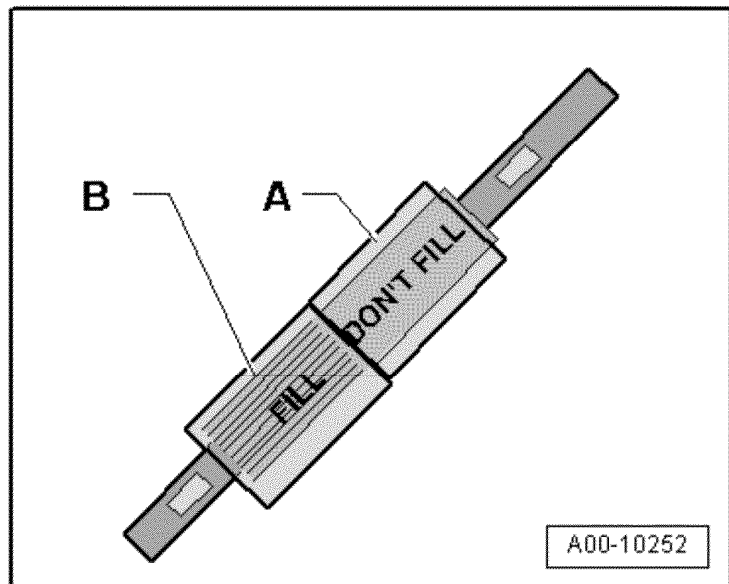
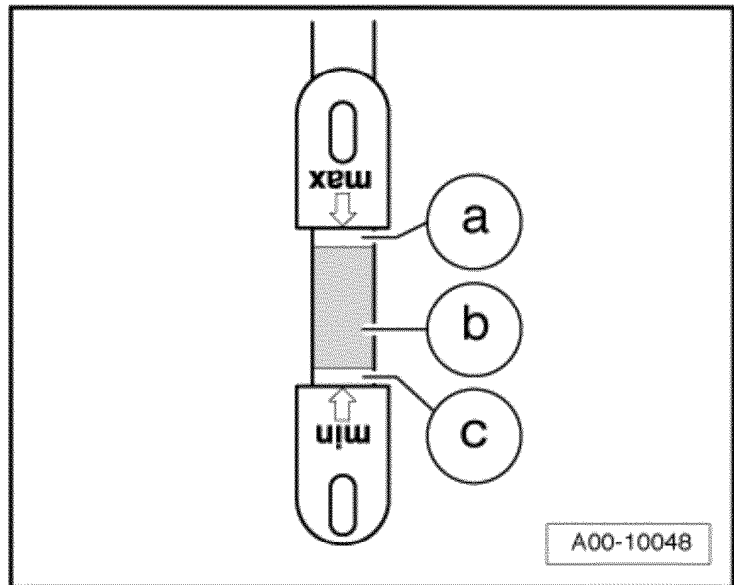
Checking Engine Oil Level, RS 6

- Follow these steps in sequential order.
- 1 Place the vehicle in a horizontal position.
- 1 Let the engine warm at different RPMs less than 2,500 RPM until the engine oil reaches a temperature of approximately 212 to 230 °F (100 to 110 °C) according to the instrument cluster. Refer to Owners Manual.
- 1 Let the engine run in idle for 3 minutes.
- 1 Switch off the engine and let the oil drain down for two minutes; then check the oil level within 10 minutes.
- 1 Add engine oil if necessary.
- 1 Oil level in the "B" range - add oil.
- 1 Filling capacity approximately 1 liter
- 1 The oil level can be within the "A" range.



NOTE

Add oil until the oil level is 5 mm below the upper edge of the "Do not Fill" range.



To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 10/8/2010 2:11:28 PM
Subject: RE: EPA's Confirmatory Maintenance Form
In-Use Parameters Form N001RXX-0043c-WAUAH78E18A040709.pdf
3.2CoolLeakCheck.pdf

Hello Lynn,

Attached is an update to the N001RXX-0043c car data.
The tank capacity is updated.

To answer your question concerning the radiator system:

Attached is the RM document for checking cooling system leaks. The purpose of the test performed at EPA are to verify that the cooling system is properly sealed and functioning per manufactures specs. This procedure does that.

If you have further questions on that please contact me.

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, October 07, 2010 9:59 AM
To: Berenz, Sebastian
Subject: RE: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

We noticed that the pressure for the radiator cap is higher than that for the radiator system. This is the opposite of what we usually see because most manufacturers want the radiator to release pressure before the radiator system. I just wanted to confirm that this is correct.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 09/22/2010 09:35 AM

Subject: RE: EPA's Confirmatory Maintenance Form

Hello Lynn,

Attached you will find your questionnaire with my added details.

Further I have attached a description for the oil change, specifications for the oil and coolant and how to change the filter.

Let me know if you have any questions on this or need something additionally.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 22, 2010 8:26 AM

To: Berenz, Sebastian

Subject: Fw: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you can send me?

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 08/25/2010 04:20 PM

Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide.

I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki
Environmental Protection Agency

734-214-4851
734-214-4869 (fax)

(See attached file: N001c-002c TELEPHONE QUESTIONNAIRE.doc)(See attached
file: N001 maintenance before FTP.doc)
(See attached file: N001 maintenance before FTP.doc)(See attached file:
FilterReplaceProc.pdf)(See attached file: FluidCapacity.pdf)(See attached file: OilFilterAssem.pdf)(See attached file:
OilLevelCheck.pdf)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

Cooling System, Checking for Leaks

Special tools and workshop equipment required

Cooling system tester -V.A.G 1274-

Adapter -V.A.G 1274/8-

Adapter -V.A.G 1274/9-

Procedure

- 1 Engine at operating temperature.



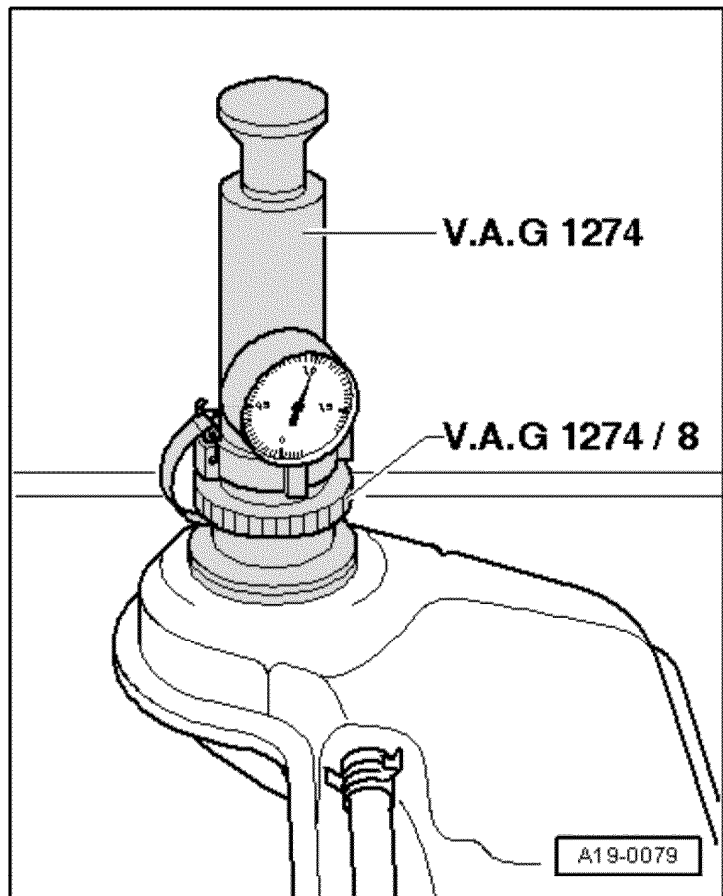
WARNING

Cover cap of expansion tank with rag and open carefully, as hot steam i.e. hot coolant may escape when opening.

- Open cap of coolant expansion tank.
- Position cooling system tester - V.A.G 1274- with adapter - V.A.G 1274/8- on expansion tank.
- Generate a positive pressure of approximately 1.0 bar using hand pump of cooling system tester.

If pressure drops:

- Search for leaking areas and repair malfunction.



Pressure relief valve in cap, checking

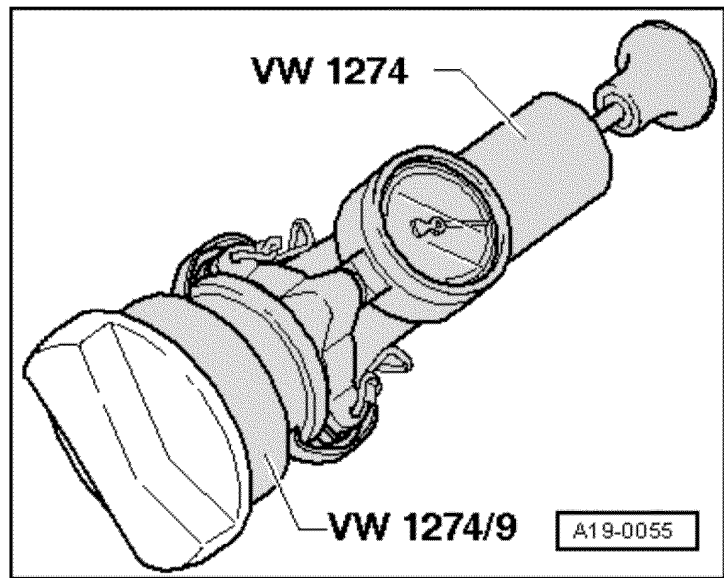
- Position cooling system tester - V.A.G 1274- with adapter - V.A.G 1274/9- on cap.
- Generate a positive pressure using

hand pump of cooling system tester.

- 1 The pressure release valve must open at a positive pressure of 1.4 to 1.6 bar.

If check-valve does not open as indicated:

- Replace cap.



To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 10/11/2010 12:13:33 PM
Subject: Request
[2010-10-11_11-03-38.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Please see attached a letter from Volkswagens Group of America.

It describes what the colleagues from Germany request.

If there are any questions occurring, please do not hesitate to contact me.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

VOLKSWAGEN

GROUP OF AMERICA

Ms. Lynn Sohacki
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
2000 Traverwood Road
Ann Arbor, Michigan 48105

Dr. Christoph Kohnen Name
Director Title
EEO Department
248-754-4201 Phone
248-754-4207 Fax
christoph.kohnen@vw.com E-Mail

October 8, 2010 Date

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Subject: Request for Approval of Additional Preconditioning – Test Group 8AD XV03.1374

Dear Ms. Sohacki:

Volkswagen Group of America, Inc. (Volkswagen) has been informed that the U.S. Environmental Protection Agency will conduct in-use surveillance testing on a number of 2008 model year vehicles in Test Group 8AD XV03.1374. Volkswagen respectfully requests that EPA grant approval for additional preconditioning.

Volkswagen recognizes that EPA has allowed for additional sulfur preconditioning applicable to in-use testing of NLEV and Tier 2 vehicles. The provisions for such allowance are described in Manufacturer's Guidance Correspondence Cisd-06-04, dated April 6, 2006.

In addition, Volkswagen had requested, in the past, additional preconditioning for certain 2003 model year 2.0L vehicles certified to the California SULEV emission standards. The basis for this request was that additional time is required for the fuel control loop on these vehicles to adapt to the fuel quality and operating conditions specified in the regulations for in-use testing.

Volkswagen is requesting additional preconditioning for vehicles in 2008 model year Test Group 8AD XV03.1374 on the following basis.

Rational

Fuel sulfur levels were reduced concurrent with the adoption of Tier 2 regulations. Most gasoline refiners were required to meet a 30 parts per million (ppm) refinery average and an 80 ppm per-gallon cap in 2006. However, there are a few refineries that have a few more

years to meet the standards as a result of program flexibilities (e.g., small refineries). Since sulfur accumulates on the catalyst and reduces the active surface for catalytic conversion, emission results may increase slightly above expected values. However, sulfur can be removed by heating up the catalyst above a certain temperature over a limited period of time. These conditions can be met by performing a USO6 driving cycle prior to initial emission testing.

To evaluate the impact of sulfur accumulation and desulfuring driving, VWGoA recently performed emission testing on in-use vehicles of this test group.

The Preferred Procedure had 3 Steps

- First, test each vehicle as received with in-use fuel from the pump, refilled by the customer. There were 2 cars with sufficient fuel for testing.
- Second, drain and refill with certification fuel and test FTP75.
- Third perform USO6 as a preconditioning drive and retest FTP75.

Results

One vehicle did perform below the standards with in-use fuel and did not improve after USO6 driving. Therefore, we conclude that this vehicle did not experience any sulfur residuals at the testing point.

VIN#	Model	Engine	Transmi ssion	Mileage	NMOG [% of Std.]	CO [% of Std.]	Nox [% of Std.]	comment
Ex. 6	A6	3.2l FSI	Atq	49767	61.4	17.2	44.4	in-use fuel as received
	A6	3.2l FSI	Atq	49793	91.8	22.1	49.0	Cert fuel
	A6	3.2l FSI	Atq	49828	68.9	18.7	26.4	cert fuel after USO6 Prep.

One vehicle did perform above the standards with in-use fuel and did improve after cert fuel testing and as of USO6 driving. Emission data lead to the assumption, that this vehicle might have sulfur residuals, which could be removed.

VIN#	Model	Engine	Transmi ssion	Mileage	NMOG [% of Std.]	CO [% of Std.]	Nox [% of Std.]	comment
Ex. 6	A4	3.2l FSI	Atq	12386	110.1	25.4	13.0	in-use fuel as received
	A4	3.2l FSI	Atq	12412	94.8	18.8	17.8	Cert fuel
	A4	3.2l FSI	Atq	12445	78.6	19.6	8.2	cert fuel after USO6 Prep.

Two vehicles also improved after preconditioning with USO6 driving. Emission data led to the assumption, that these vehicles might have sulfur residuals, which could be removed.

VIN#	Model	Engine	Transmi ssion	Mileage	NMOG [% of Std.]	CO [% of Std.]	Nox [% of Std.]	comment
Ex. 6	A6	3.2l FSI	Atq	53381	124.0	28.1	48.0	Cert fuel
	A6	3.2l FSI	Atq	53415	84.7	23.9	32.9	cert fuel after USO6 Prep.

VIN#	Model	Engine	Transmi ssion	Mileage	NMOG [% of Std.]	CO [% of Std.]	Nox [% of Std.]	comment
Ex. 6	A6	3.2l FSI	Atq	57657	98.9	23.9	23.9	Cert fuel
	A6	3.2l FSI	Atq	57691	75.3	21.7	11.9	cert fuel after USO6 Prep.

Conclusion

Testing indicates that in-use fuel with higher sulfur content than certification fuel is still available for customer use. Test data show that, in general, USO6 driving does not improve emission results. Test data indicate that increased HC emissions induced by undesirable sulfur residuals on the catalytic surface are removable under USO6 driving conditions.

To evaluate the emission performance of this Test Group it is indicated to remove the sulfur residuals before testing.

Request

Volkswagen is requesting USO6 cycle preconditioning driving for vehicles in 2008 model year Test Group 8AD XV03.1374 prior to the first confirmatory test of each vehicle.

If there are any questions regarding this request, please contact Mr. Sebastian Berenz of my staff at (249) 754-4211.

Sincerely,
VOLKSWAGEN GROUP OF AMERICA, INC.



Dr. Christoph Kohnen
Director
Engineering and Environmental Office

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 10/11/2010 12:24:35 PM
Subject: RE: In-use vehicles scheduled for next week
[In-Use Parameters Form N001RXX-0018C.pdf](#)
[In-Use Parameters Form N001RXX-0055C.pdf](#)

Hello Lynn,

Attached you will find the requested data for the next two cars.
We will be in Ann Arbor for the inspections as usually.

Please let me know if something changes.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, October 07, 2010 9:13 AM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0055C (2008 Audi/A6) - VIN# Ex. 6 1000 vehicle pick up on 10/13/10
(Wednesday)

N001RXX-0018C (2008 Audi/A4) - VIN# Ex. 6 0830 vehicle pick
up on 10/14/10 (Thursday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.

Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force* mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force* mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force* mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force* mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 10/12/2010 12:59:54 PM
Subject: request detailed test procedure
[2010-10-12_11-59-41.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find another request from Volkswagen for the ongoing confirmatory program.

If there are any questions, please contact me.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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VOLKSWAGEN

GROUP OF AMERICA

Ms. Lynn Sohacki
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
2000 Traverwood Road
Ann Arbor, Michigan 48105

Dr. Christoph Kohnen Name
Director Title
EEO Department
248-754-4201 Phone
248-754-4207 Fax
christoph.kohnen@vw.com E-Mail

October 12, 2010 Date

Subject: Request for approval of a revised vehicle preparation and preconditioning procedure for Test Group 8AD XV03.1374

Dear Ms. Sohacki:

Volkswagen Group of America, Inc. (Volkswagen) has been in contact with the U.S. Environmental Protection Agency regarding the in-use performance of Test Group 8AD XV03.1374. The current status is that the EPA will conduct in-use confirmatory testing on a number of 2008 model year vehicles in this test group. Volkswagen continues to investigate this engine family.

Volkswagen recognized while inspecting the first car (N001RXX-0043c) at EPA's laboratory, that the fuel drain and refill procedure created fault codes and pending codes which were not present when the car first arrived for vehicle preparation prior emission testing. The fault codes and impending codes are attributed to the current drain and fill practice at the EPA laboratory where the vehicle is drained of fuel with the engine running. The fuel tank is then considered empty when the engine stalls. Following the engine stall event, the vehicle is not immediately refilled with fuel. This introduces air in the fuel system. Several subsequent engine starts with air in the fuel system leads to the discussed fault codes. In addition, Volkswagen believes when observing the preparation of vehicle N001RXX-0043c that numerous starts with air still retained in the fuel system caused adaption values that deviated from normal.

Volkswagen recommends that the preparation and preconditioning procedure be revised to eliminate potential non representative emission results. We recommend that the vehicle be immediately refilled with at least one gallon of certification fuel after the engine stall event and that the engine be started and idled for five minutes. This should minimize the negative effect of air trapped in the fuel system. In addition, Volkswagen recommends that an additional cold start FTP-72 be added as a preconditioning cycle to ensure the air is fully purged from the fuel system and the vehicle is properly adapted. A detailed flowchart is attached with our recommended changes highlighted.

Volkswagen respectfully requests to adopt this detailed procedure.

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE 41 248 754 5000

VOLKSWAGEN

GROUP OF AMERICA

If there are any questions regarding this request, please contact Mr. Sebastian Berenz of my staff at (249) 754-4211.

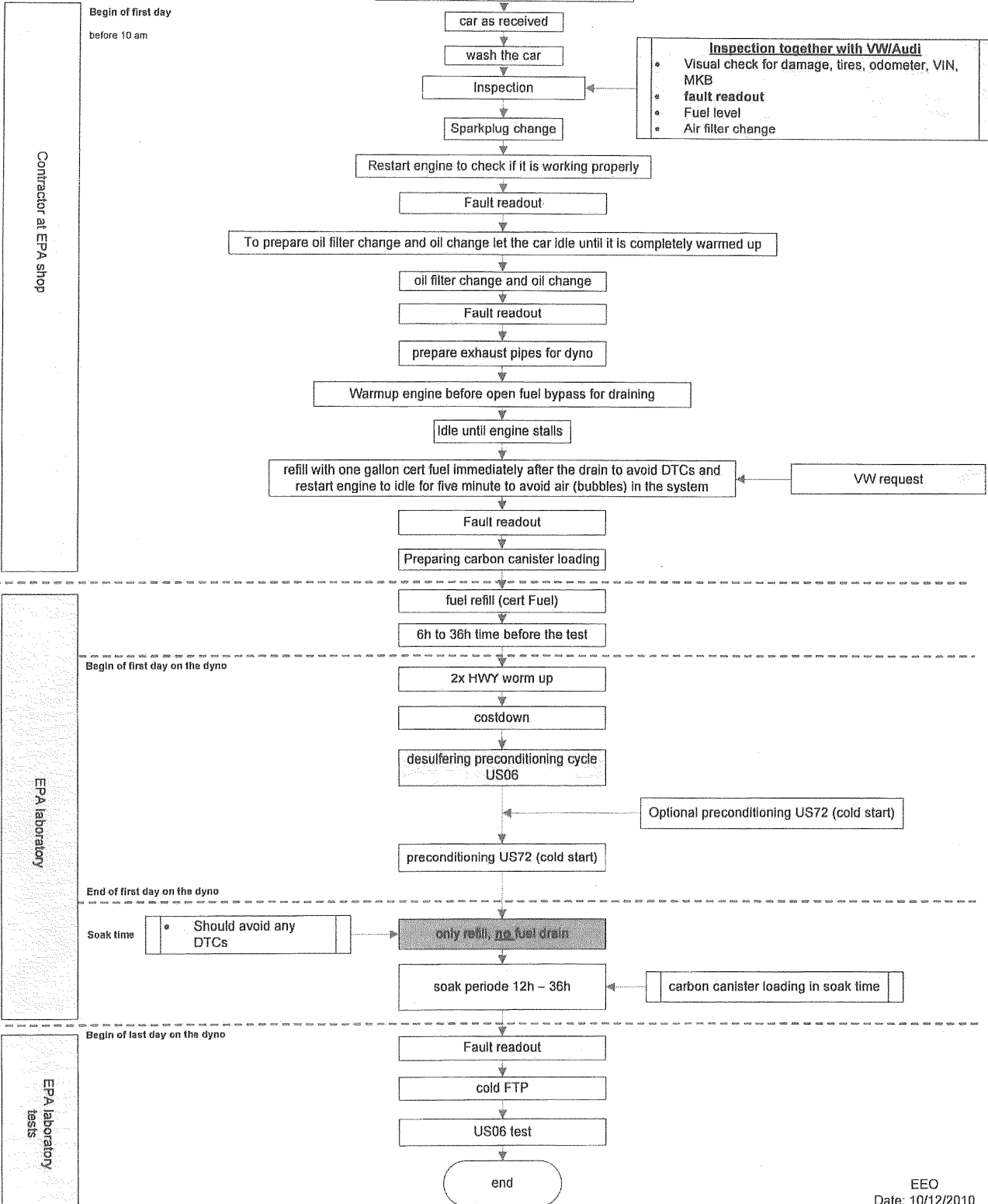
Sincerely,
VOLKSWAGEN GROUP OF AMERICA, INC.



Dr. Christoph Kohlen
Director
Engineering and Environmental Office

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

detailed testing procedure



EEO
Date: 10/12/2010

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
From: "Banzer, Mark (I/EA-153)"
Sent: Thur 10/14/2010 2:07:12 AM
Subject: readouts
[Readout A4 32FWD EPA_20011006 at arrival.txt](#)
[Readout A4 32FWD EPA_20011013 after coldstartadaptation.txt](#)
[Readout A4 32FWD EPA_20011006 after drain and refill.txt](#)
[Readout A4 32FWD EPA_20011006 after maintenance.txt](#)
<mailto:mark.banzer@audi.de>
<http://www.audi.com>

Hi Lynn,

as requested I send you the readouts of the A4 3.2 0043C from last week and today. I renamed them, so you can easily find out when the readout was taken.

<<Readout A4 32FWD EPA_20011006 at arrival.txt>> <<Readout A4 32FWD EPA_20011013 after coldstartadaptation.txt>> <<Readout A4 32FWD EPA_20011006 after drain and refill.txt>> <<Readout A4 32FWD EPA_20011006 after maintenance.txt>>

Mit freundlichen Grüßen

Mark Banzer

Abgasentgiftung, Lambdaregelung

AUDI AG

I/EA-153

Thermodynamik/Applikation V6 FSI

85045 Ingolstadt

Tel.: +49 (0)841 89-56654

Fax: +49 (0)841 89-38831

<mailto:mark.banzer@audi.de>

<http://www.audi.com>

Sitz/Domicile: Ingolstadt

Registergericht/Court of Registry: Amtsgericht Ingolstadt

HRB Nr./Commercial Register No.: 1

Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Martin Winterkorn

Vorstand/Board of Management: Rupert Stadler (Vorsitzender/Chairman), Ulf Berkenhagen, Michael Dick, Frank Dreves, Peter Schwarzenbauer, Thomas Sigi, Axel Strotbek

Wichtiger Hinweis: Die vorgenannten Angaben werden jeder E-Mail automatisch hinzugefügt und lassen keine Rückschlüsse auf den Rechtscharakter der E-Mail zu.

Important Notice: The above information is automatically added to this e-mail. This addition does not constitute a representation that the content of this e-mail is legally relevant and/or is intended to be legally binding upon AUDI AG.

Datum: 06.10.2010 19:31:44

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F
Konfiguration: 0060 programmierbar
Systembezeichnung: 3.2l V6 FSI
Gerätenummer: 64638
Importeursnummer: 444
Betriebsnummer: 02136
Lange Codierung: 0104010902070120
Hardwareteilenummer: 8E0907559J
Seriennummer: XXXXXXXXXXXXXXXX
Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21---
Prüfstandnummer: 0394
Herstellernummer: 0442
Status des Flash: 0000 0000 1 1 0000 0000
Motor/Systemnummer: AUK
Fahrgestellnummer: **Ex. 6**

Fehlerspeicher

0 Fehler gespeichert

Messwerte

1	0 U/min	51.7 °C	0.0 %	0.0 %
2	0 U/min	0 %	19.31 ms	986.7 mbar
3	0 U/min	984.9 mbar	5.5 %	-0.0 °v.OT
4	0 U/min	12.138 V	51.7 °C	41.2 °C
5	0 U/min	0 %	0 km/h	
6	0 U/min	0 %	41.2 °C	-2.8 %
7				
8				
9	63.8 mm	48.0 mm	0	0
10	0 U/min	0 %	5.5 %	-0.0 °v.OT
11	0 U/min	51.7 °C	41.2 °C	-0.0 °v.OT
12				
13				
14	0 U/min	0 %	0	gesperrt
15	0	0	0	gesperrt
16	0	0	0	gesperrt
17				
18	0 U/min	0 U/min	0 %	0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW

21	0.00 KW	0.00 KW		
22	0 U/min	0 %	0.00 KW	0.00 KW
23	0 U/min	0 %	0.00 KW	0.00 KW
24	0 U/min	0 %	0.00 KW	0.00 KW
25				
26	4.004 V	4.004 V	4.004 V	4.004 V
27	4.004 V	4.004 V		
28	0 U/min	0 %	51.7 °C	Test AUS
29				
30	___0 0100	___0100	___0 0100	___0100
31	1.00008	1.00008	1.00008	1.00008
32	2.1 %	2.9 %	-1.1 %	0.6 %
33	0.0 %	2.055 V	0.0 %	2.060 V
34	0 U/min	-33.0 °C	0.00977	Test AUS
35	0 U/min	-33.0 °C	0.03516	Test AUS
36	0.429 V	Test AUS	0.424 V	Test AUS
37	0 %	0.429 V	0.0 %	Test AUS
38	0 %	0.424 V	0.0 %	Test AUS
39	0.0 g/s	0.429 V	0.424 V	Test AUS
40				
41	0 Ohm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
42	0 Ohm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
43	0 U/min	-33.0 °C	0.429 V	aus
44	0 U/min	-33.0 °C	0.429 V	aus
45				
46	0 U/min	-33.0 °C	0.03907	Test AUS
47	0 U/min	-33.0 °C	0.02344	Test AUS
48				
49				
50	0 U/min	780 U/min	aus	Kompr. AUS
51	0 U/min	780 U/min	0	12.138 V
52				
53	0 U/min	780 U/min	12.138 V	0.0 Nm
54	0 U/min	0 %	5.5 %	
55	0 U/min	0.0 Nm	29.9 Nm	___00 0000
56	0 U/min	780 U/min	0.0 Nm	___00 0000
57	0 U/min	780 U/min	Kompr. AUS	0.7 Nm
58	0 U/min	0 %	aus	
59				
60	15.3 %	85.5 %	0	ADP. i.O.
61	0 U/min	12.138 V	0.0 %	___00 0000
62	15.3 %	85.5 %	14.9 %	7.5 %
63	14.9 %	89.4 %		gelernt
64	0.527 V	4.510 V	0.781 V	4.251 V
65				
66	0 km/h	0000 1000	0 km/h	1000 0001
67		0000 1000		
68	0 U/min	0 %	0	WK auf
69				
70	0 %	0.0 %	0.0 %	Test AUS
71	Reed auf			Test AUS
72				
73				
74				
75				
76				

77				
78				
79				
80				
81				
82				
83				
84				
85	12700 km	54	298	1393
86	0000 0000	1111 1111	0001 1111	0001 1111
87	0000 0000	0000 0000	0000 0000	0000 0000
88	1100 1111	0010 1101	1100 1000	
89	0 km	i.O.		
90	0 U/min	0 %	0.00 KW	0.00 KW
91	0 U/min	0 %	0.00 KW	0.00 KW
92	0 U/min	0 %	0.00 KW	0.00 KW
93				
94	0.00 KW	0.00 KW	Test AUS	Test AUS
95	0.0 %	0.0 %	0.000 V	ADP. i.O.
96	0.00 KW	0.00 KW	Test AUS	Test AUS
97	0 U/min	0 %	984.9 mbar	aus
98	0 U/min	0 %	0.00 KW	0.00 KW
99	0 U/min	51.7 °C	0.0 %	aus
100	0000 0000	51.7 °C	0.0 s	1000 0001
101	0 U/min	0 %	19.31 ms	984.9 mbar
102	0 U/min	51.7 °C	41.2 °C	19.31 ms
103	5.96 bar	0.0 %	-3.8 %	aus
104	52.5 °C	2.3 %	0.8 %	0.8 %
105	0 U/min	0 %	51.7 °C	ein
106	5.96 bar	10 %		1.82 s
107	0 U/min	0.0 %	0.0 %	aus
108				
109				
110				
111				
112				
113	0 U/min	0 %	15.3 %	982.8 mbar
114				
115				
116				
117				
118				
119				
120	0 U/min	496.0 Nm	19.3 Nm	ASR n.aktiv
121				
122	0 U/min	496.0 Nm	19.3 Nm	kein Eingr.
123				
124				
125	Getriebe 1	ABS 1	Kombi 1	Klima 1
126		Lenkwink. 1	Airbag 1	
127			Lenkrad 1	
128				
129				
130				
131				
132				

133				
134	52 °C	11.2 °C	41.2 °C	51.7 °C
135		10 %		
136			aus	
137	aus	Kompr. AUS	6.80 bar	0 %
138	52.5 °C	0.0 g/s	0 km/h	Test AUS
139	75.6 °C	0.0 kg	0.0 kg	Test AUS
140	0 %	61.89 bar	4.60 bar	inaktiv
141	0.00 bar	0	0	3
142	100 %	100.0 %	0.014 V	ADP. i.O.
143				
144	100 %	100.0 %	0.000 V	ADP. i.O.
145				
146				
147				
148				
149				
150				
151				
152				
153				
154				
155				
156				
157				
158				
159				
160				
161				
162				
163				
164				
165				
166				
167				
168				
169				
170	aus	aus	aus	aus
171				
172				
173				
174				
175				
176				
177				
178				
179				
180				
181				
182				
183				
184				
185				
186				
187				
188				

189				
190	51.7 °C	0 %	0 U/min	5 °DK
191				
192				
193				
194				
195				
196				
197				
198				
199				
200				
201	50 %	5	6.99 bar	2.490 V
202	2.9 %	0.6 %	0.0 %	0.0 %
203	0 U/min	0 %	19.31 ms	19.31 ms
204	65.53 kOhm	65.53 kOhm	-33.0 °C	Test AUS
205	12.0 %	0.0 %	100.0 %	
206	0 %	0.0 %	0 %	0.0 %
207	0000 0001	12460 km	12460 km	0000 0000
208	0	0	0	0
209	0	0	803	gesperrt
210	0 U/min	0 %	0.0 mbar	0.00 KW
211	0.0 g/s	0.0 g/s		986.9 mbar
212	0 %	0.0 %	0 %	0.0 %
213	0 %	200 %	0.0 mbar	
214	0.4 %	-0.2 %	0.0 %	
215	0.27120	0.27044		
216	0.00000	0.00000	0	NA
217	0.00000	0.00000	0	NA
218	0.00	-0.59	-0.13	-0.82
219	-0.26	0.06	298	
220	-5.2 °C	-5.2 °C	9.7 °C	9.7 °C
221	24.0 °C	24.7 °C	31.5 °C	31.5 °C
222	41.2 °C	41.2 °C		
223				
224	0.4 %	0.5 %	-0.9 %	0.7 %
225	-1.0 %	0.3 %	0.0 °	0.0 °
226	12460 km	12460 km	-0.07 mg/h	0.08 mg/h
227	-0.01 mg/h	0.05 mg/h	-0.04 mg/h	-0.01 mg/h
228	2.055 V	2.060 V	0.0 °C	0000 0000
229	41.2 °C	0.0 °C	0.0 °C	0.0 °C
230	0.0 kg	0.0 kg	12460 km	
231				
232	41.2 °C	0000 0100	-1.6 %	2.8 %
233	-0.1 %	3.9 %	-0.1 %	3.9 %
234	1.1 %	3.1 %	-0.2 %	0.7 %
235	52.5 °C	51.7 °C	8.2 °C	7.5 °C
236	51.7 °C	51.7 °C	0.0 s	0
237				
238	0.860 V	4.199 V		
239	1.308 V	4.116 V	1.416 V	4.107 V
240	0 km/h	1111 0111	0000 0011	0000 0000
241	no_error			
242	no_error			
243	no_error			
244	no_error			

245	no_error				
246	no_error				
247	no_error				
248	no_error				
249	no_error				
250	0 %			0.053 V	
251	1.02 bar	2.70 bar	0.34 s		51.7 °C
252	173.89 bar	173.89 bar	655.35 s		51.7 °C
253	S62R7010 CB1A S0				
254	No AS active				

Datum: 13.10.2010 19:34:23

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F
Konfiguration: 0060 programmierbar
Systembezeichnung: 3.2l V6 FSI
Gerätenummer: 64638
Importeursnummer: 444
Betriebsnummer: 02136
Lange Codierung: 0104010902070120
Hardwareteilenummer: 8E0907559J
Seriennummer: XXXXXXXXXXXXXXXX
Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21---
Prüfstandnummer: 0394
Herstellernummer: 0442
Status des Flash: 0000 0000 1 1 0000 0000
Motor/Systemnummer: AUK
Fahrgestellnummer: **Ex. 6**

Fehlerspeicher

2 Fehler gespeichert

P0441 Tankentlüftungssystem Durchsatz fehlerhaft
0110 1000 unplausibles Signal
Bedingungen erfüllt
statisch
Warnlampe aus

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz
0110 0110 Kurzschluss nach Plus
Bedingungen erfüllt
statisch
Warnlampe aus

P0441 Tankentlüftungssystem Durchsatz fehlerhaft
0000 1000 Fehlerstatus
5 dez Priorität
1 dez Häufigkeitszähler
40 dez Verlernzähler
12708 km Kilometerstand
00.00.00 Datum
00:00:00 Uhrzeit
704 U/min Drehzahl
109 mg/H Luftmasse pro Hub
73.5 °C Temperatur

Leerlauf	Text aus Tabelle
15.7 %	Last
0 km/h	Geschwindigkeit

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0000 0001	Fehlerstatus
5 dez	Priorität
1 dez	Häufigkeitszähler
40 dez	Verlernzähler
12708 km	Kilometerstand
00.00.00	Datum
00:00:00	Uhrzeit
704 U/min	Drehzahl
109 mg/H	Luftmasse pro Hub
90.0 °C	Temperatur
Leerlauf	Text aus Tabelle
4.2 bar	Druck
0 km/h	Geschwindigkeit

Messwerte

1	0 U/min	32.2 °C	0.0 %	0.0 %
2	0 U/min	0 %	7.25 ms	985.6 mbar
3	0 U/min	982.8 mbar	5.1 %	-0.0 °v.OT
4	0 U/min	11.934 V	32.2 °C	25.5 °C
5	0 U/min	0 %	0 km/h	
6	0 U/min	0 %	25.5 °C	-3.0 %
7				
8				
9	63.2 mm	48.0 mm	0	0
10	0 U/min	0 %	5.1 %	-0.0 °v.OT
11	0 U/min	32.2 °C	25.5 °C	-0.0 °v.OT
12				
13				
14	0 U/min	0 %	0	gesperrt
15	0	0	0	gesperrt
16	0	0	0	gesperrt
17				
18	0 U/min	0 U/min	0 %	0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	0 %	0.00 KW	0.00 KW
23	0 U/min	0 %	0.00 KW	0.00 KW
24	0 U/min	0 %	0.00 KW	0.00 KW
25				
26	4.004 V	4.004 V	4.004 V	4.004 V
27	4.004 V	4.004 V		
28	242 U/min	100 %	32.2 °C	Test AUS
29				
30	___0 0100	___0100	___0 0100	___0100
31	1.02840	0.98348	1.02840	0.98348
32	2.1 %	2.9 %	-1.1 %	0.6 %
33	0.0 %	2.032 V	0.0 %	2.032 V

34	1772 U/min	-33.0 °C	0.00977	Test AUS
35	1826 U/min	-33.0 °C	0.03516	Test AUS
36	0.429 V	Test AUS	0.424 V	Test AUS
37	20 %	0.434 V	0.0 %	Test AUS
38	19 %	0.424 V	0.0 %	Test AUS
39	10.1 g/s	0.429 V	0.424 V	Test AUS
40				
41	16.38 kOhm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
42	16.38 kOhm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
43	1823 U/min	73.0 °C	0.429 V	aus
44	1776 U/min	73.0 °C	0.429 V	aus
45				
46	1660 U/min	73.0 °C	0.03907	Test AUS
47	1624 U/min	73.0 °C	0.02344	Test AUS
48				
49				
50	1572 U/min	866 U/min	aus	Kompr. AUS
51	1557 U/min	866 U/min	0	11.730 V
52				
53	1505 U/min	866 U/min	11.730 V	0.0 Nm
54	1477 U/min	Leerlauf	0 %	4.3 %
55	1422 U/min	-0.2 Nm	13.5 Nm	__00 0000
56	1371 U/min	866 U/min	-0.3 Nm	__00 0000
57	1332 U/min	866 U/min	Kompr. AUS	0.7 Nm
58	1304 U/min	16 %	aus	
59				
60	13.7 %	87.1 %	0	ADP. i.O.
61	1232 U/min	12.342 V	-12.0 %	__00 0000
62	13.7 %	87.1 %	14.9 %	7.5 %
63	14.9 %	89.4 %		gelernt
64	0.527 V	4.510 V	0.781 V	4.251 V
65				
66	0 km/h	0000 1011	0 km/h	1000 0001
67		0000 1011		
68	1081 U/min	25 %	0	WK auf
69				
70	0 %	0.0 %	1.2 %	Test AUS
71	Reed zu			Test AUS
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85	12700 km	54	298	1408
86	0000 0000	1111 1111	0001 1110	0001 1110
87	0000 0000	0000 1000	0000 0000	0000 0000
88	1100 1111	0010 1101	1100 1000	
89	0 km	zu klein		

90	951 U/min	0 %	0.00 KW	0.00 KW
91	944 U/min	0 %	0.00 KW	0.00 KW
92	941 U/min	0 %	0.00 KW	0.00 KW
93	-0.37 KW	4.12 KW	-0.37 KW	1.87 KW
94	0.00 KW	0.00 KW	Test EIN	Test EIN
95	100.0 %	100.0 %	3.276 V	ADP. i.O.
96	0.00 KW	0.00 KW	Test EIN	Test EIN
97	928 U/min	24 %	408.5 mbar	aus
98	921 U/min	0 %	0.00 KW	0.00 KW
99	915 U/min	32.2 °C	0.0 %	aus
100	0000 0000	32.2 °C	4.2 s	0101 0001
101	911 U/min	25 %	1.78 ms	414.4 mbar
102	904 U/min	32.2 °C	25.5 °C	1.78 ms
103	6.93 bar	-2.5 %	25.0 %	aus
104	32.2 °C	0.0 %	3.1 %	0.0 %
105	879 U/min	26 %	32.2 °C	aus
106	6.92 bar	71 %		2.00 s
107	892 U/min	0.0 %	0.0 %	aus
108				
109				
110				
111				
112				
113	893 U/min	25 %	13.7 %	982.8 mbar
114				
115				
116				
117				
118				
119				
120	867 U/min	496.0 Nm	49.4 Nm	ASR n.aktiv
121				
122	899 U/min	496.0 Nm	48.0 Nm	kein Eingr.
123				
124				
125	Getriebe 1	ABS 1	Kombi 1	Klima 1
126		Lenkwink. 1	Airbag 1	
127			Lenkrad 1	
128				
129				
130				
131				
132				
133				
134	31 °C	11.2 °C	25.5 °C	32.2 °C
135		10 %		
136			aus	
137	aus	Kompr. AUS	6.60 bar	0 %
138	32.2 °C	0.0 g/s	0 km/h	Test AUS
139	75.6 °C	0.0 kg	0.0 kg	Test AUS
140	57 %	35.21 bar	35.34 bar	inaktiv
141	0.00 bar	5	-7 2	
142	100 %	100.0 %	0.009 V	ADP. i.O.
143				
144	100 %	100.0 %	0.000 V	ADP. i.O.
145				

146				
147				
148				
149				
150				
151				
152				
153				
154				
155				
156				
157				
158				
159				
160				
161				
162				
163				
164				
165				
166				
167				
168				
169				
170	aus	aus	aus	aus
171				
172				
173				
174				
175				
176				
177				
178				
179				
180				
181				
182				
183				
184				
185				
186				
187				
188				
189				
190	32.2 °C	0 %	0 U/min	5 °DK
191				
192				
193				
194				
195				
196				
197				
198				
199				
200				
201	71 %	8	6.99 bar	2.662 V

202	2.9 %	0.6 %	0.0 %	0.0 %
203	0 U/min	0 %	7.25 ms	7.25 ms
204	65.53 kOhm	65.53 kOhm	-33.0 °C	Test AUS
205	-2.2 %	0.0 %	100.0 %	
206	0 %	0.0 %	0 %	0.0 %
207	0000 0001	12460 km	12460 km	0000 0000
208	0	0	0	0
209	0	0	804	gesperrt
210	0 U/min	0 %	0.0 mbar	0.00 KW
211	0.0 g/s	0.0 g/s		985.8 mbar
212	0 %	0.0 %	0 %	0.0 %
213	0 %	200 %	0.0 mbar	
214	0.3 %	-0.1 %	0.0 %	
215	0.26293	0.26217		
216	0.00000	0.00000	0	NA
217	0.00000	0.00000	0	NA
218	0.00	-0.59	-0.13	-0.82
219	-0.26	0.06	298	
220	-5.2 °C	-5.2 °C	9.7 °C	9.7 °C
221	27.0 °C	27.6 °C	35.2 °C	35.2 °C
222	42.0 °C	42.0 °C		
223				
224	0.4 %	0.5 %	-0.9 %	0.7 %
225	-1.0 %	0.3 %	0.0 °	0.0 °
226	12460 km	12460 km	-0.14 mg/h	0.08 mg/h
227	0.05 mg/h	0.01 mg/h	0.02 mg/h	-0.03 mg/h
228	2.055 V	2.055 V	0.0 °C	0000 0000
229	25.5 °C	0.0 °C	0.0 °C	0.0 °C
230	0.0 kg	0.0 kg	12460 km	
231				
232	25.5 °C	0000 0100	-1.6 %	2.8 %
233	-1.1 %	3.9 %	-1.1 %	3.9 %
234	-0.8 %	0.6 %	-0.8 %	0.6 %
235	31.5 °C	32.2 °C	8.2 °C	7.5 °C
236	32.2 °C	32.2 °C	0.0 s	0
237				
238	0.860 V	4.199 V		
239	1.308 V	4.116 V	1.416 V	4.107 V
240	0 km/h	1111 0111	0000 0011	0000 0000
241	mec_open_cps			
242	efppwm_plaus			
243	no_error			
244	no_error			
245	no_error			
246	no_error			
247	no_error			
248	no_error			
249	no_error			
250	0 %		0.053 V	
251	1.07 bar	1.03 bar	2.01 s	32.2 °C
252	173.89 bar	173.89 bar	655.35 s	32.2 °C
253	S62R7010 CB1A S0			
254	No AS active			

Datum: 07.10.2010 20:29:00

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F
Konfiguration: 0060 programmierbar
Systembezeichnung: 3.2l V6 FSI
Gerätenummer: 64638
Importeursnummer: 444
Betriebsnummer: 02136
Lange Codierung: 0104010902070120
Hardwareteilenummer: 8E0907559J
Seriennummer: XXXXXXXXXXXXXXXX
Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21---
Prüfstandnummer: 0394
Herstellernummer: 0442
Status des Flash: 0000 0000 1 1 0000 0000
Motor/Systemnummer: AUK
Fahrgestellnummer:

Ex. 6

Fehlerspeicher

2 Fehler gespeichert

P0441 Tankentlüftungssystem Durchsatz fehlerhaft
0110 1000 unplausibles Signal
Bedingungen erfüllt
statisch
Warnlampe aus

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz
0110 0110 Kurzschluss nach Plus
Bedingungen erfüllt
statisch
Warnlampe aus

P0441 Tankentlüftungssystem Durchsatz fehlerhaft
0000 1000 Fehlerstatus
5 dez Priorität
1 dez Häufigkeitszähler
40 dez Verlernzähler
12708 km Kilometerstand
00.00.00 Datum
00:00:00 Uhrzeit
704 U/min Drehzahl
109 mg/H Luftmasse pro Hub
73.5 °C Temperatur

Leerlauf	Text aus Tabelle
15.7 %	Last
0 km/h	Geschwindigkeit

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0000 0001	Fehlerstatus
5 dez	Priorität
1 dez	Häufigkeitszähler
40 dez	Verlernzähler
12708 km	Kilometerstand
00.00.00	Datum
00:00:00	Uhrzeit
704 U/min	Drehzahl
109 mg/H	Luftmasse pro Hub
90.0 °C	Temperatur
Leerlauf	Text aus Tabelle
4.2 bar	Druck
0 km/h	Geschwindigkeit

Messwerte

1	0 U/min	92.3 °C	0.0 %	0.0 %
2	0 U/min	0 %	5.85 ms	986.7 mbar
3	0 U/min	982.8 mbar	5.5 %	-0.0 °v.OT
4	0 U/min	12.342 V	92.3 °C	38.2 °C
5	0 U/min	0 %	0 km/h	
6	0 U/min	0 %	38.2 °C	-3.0 %
7				
8				
9	64.2 mm	46.0 mm	0	0
10	0 U/min	0 %	5.5 %	-0.0 °v.OT
11	0 U/min	92.3 °C	38.2 °C	-0.0 °v.OT
12				
13				
14	0 U/min	0 %	0	gesperrt
15	0	0	0	gesperrt
16	0	0	0	gesperrt
17				
18	0 U/min	0 U/min	0 %	0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	0 %	0.00 KW	0.00 KW
23	0 U/min	0 %	0.00 KW	0.00 KW
24	0 U/min	0 %	0.00 KW	0.00 KW
25				
26	4.004 V	4.004 V	4.004 V	4.004 V
27	4.004 V	4.004 V		
28	0 U/min	0 %	92.3 °C	Test AUS
29				
30	___0 0100	___0100	___0 0100	___0100
31	1.00008	1.00008	1.00008	1.00008
32	2.1 %	2.9 %	-1.1 %	0.6 %
33	0.0 %	2.055 V	0.0 %	2.055 V

34	0 U/min	-33.0 °C	0.00977	Test AUS
35	0 U/min	-33.0 °C	0.03516	Test AUS
36	0.444 V	Test AUS	0.444 V	Test AUS
37	0 %	0.444 V	0.0 %	Test AUS
38	0 %	0.444 V	0.0 %	Test AUS
39	0.0 g/s	0.444 V	0.444 V	Test AUS
40				
41	0 Ohm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
42	0 Ohm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
43	0 U/min	-33.0 °C	0.444 V	aus
44	0 U/min	-33.0 °C	0.444 V	aus
45				
46	0 U/min	-33.0 °C	0.03907	Test AUS
47	0 U/min	-33.0 °C	0.02344	Test AUS
48				
49				
50	0 U/min	730 U/min	aus	Kompr. AUS
51	0 U/min	730 U/min	0	12.342 V
52				
53	0 U/min	730 U/min	12.342 V	0.0 Nm
54	0 U/min	0 %	5.1 %	
55	0 U/min	0.0 Nm	29.9 Nm	__00 0000
56	0 U/min	730 U/min	0.0 Nm	__00 0000
57	0 U/min	730 U/min	Kompr. AUS	0.7 Nm
58	0 U/min	0 %	aus	
59				
60	15.3 %	85.9 %	0	ADP. i.O.
61	0 U/min	12.444 V	0.0 %	__00 0000
62	15.3 %	85.9 %	14.9 %	7.5 %
63	14.9 %	89.4 %		gelernt
64	0.527 V	4.510 V	0.781 V	4.251 V
65				
66	0 km/h	0000 1000	0 km/h	1000 0001
67		0000 1000		
68	0 U/min	0 %	0	WK auf
69				
70	0 %	0.0 %	0.0 %	Test AUS
71	Reed auf			Test AUS
72				
73				
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83				
84				
85	12700 km	54	298	1399
86	0000 0000	1111 1111	0001 1111	0001 1111
87	0000 0000	0000 1000	0000 0000	0000 0000
88	1100 1111	0010 1101	1100 1000	
89	0 km	zu klein		

90	0 U/min	0 %	0.00 KW	0.00 KW
91	0 U/min	0 %	0.00 KW	0.00 KW
92	0 U/min	0 %	0.00 KW	0.00 KW
93				
94	0.00 KW	0.00 KW	Test AUS	Test AUS
95	0.0 %	0.0 %	0.000 V	ADP. i.O.
96	0.00 KW	0.00 KW	Test AUS	Test AUS
97	0 U/min	0 %	982.8 mbar	aus
98	0 U/min	0 %	0.00 KW	0.00 KW
99	0 U/min	92.3 °C	0.0 %	aus
100	0000 0000	92.3 °C	0.0 s	1001 0001
101	0 U/min	0 %	6.00 ms	982.8 mbar
102	0 U/min	92.3 °C	38.2 °C	6.00 ms
103	0.96 bar	0.0 %	25.0 %	aus
104	91.5 °C	10.9 %	11.7 %	5.5 %
105	0 U/min	0 %	92.3 °C	ein
106	0.96 bar	10 %		0.00 s
107	0 U/min	0.0 %	0.0 %	aus
108				
109				
110				
111				
112				
113	0 U/min	0 %	15.3 %	982.8 mbar
114				
115				
116				
117				
118				
119				
120	0 U/min	496.0 Nm	19.3 Nm	ASR n.aktiv
121				
122	0 U/min	496.0 Nm	19.3 Nm	kein Eingr.
123				
124				
125	Getriebe 1	ABS 1	Kombi 1	Klima 1
126		Lenkwink. 1	Airbag 1	
127			Lenkrad 1	
128				
129				
130				
131				
132				
133				
134	91 °C	11.2 °C	38.2 °C	92.3 °C
135		10 %		
136			aus	
137	aus	Kompr. AUS	7.60 bar	0 %
138	91.5 °C	0.0 g/s	0 km/h	Test AUS
139	75.6 °C	0.0 kg	0.0 kg	Test AUS
140	0 %	49.50 bar	20.31 bar	inaktiv
141	0.00 bar	0	0	3
142	100 %	100.0 %	0.004 V	ADP. i.O.
143				
144	100 %	100.0 %	0.000 V	ADP. i.O.
145				

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201

aus	aus	aus	aus
92.3 °C	0 %	0 U/min	5 °DK
71 %	9	6.99 bar	0.493 V

202	2.9 %	0.6 %	0.0 %	0.0 %
203	0 U/min	0 %	5.90 ms	5.90 ms
204	65.53 kOhm	65.53 kOhm	-33.0 °C	Test AUS
205	56.6 %	0.0 %	100.0 %	
206	0 %	0.0 %	0 %	0.0 %
207	0000 0001	12460 km	12460 km	0000 0000
208	0	0	0	0
209	0	0	804	gesperrt
210	0 U/min	0 %	0.0 mbar	0.00 KW
211	0.0 g/s	0.0 g/s		986.7 mbar
212	0 %	0.0 %	0 %	0.0 %
213	0 %	200 %	0.0 mbar	
214	0.6 %	-0.2 %	0.0 %	
215	0.26293	0.26217		
216	0.00000	0.00000	0	NA
217	0.00000	0.00000	0	NA
218	0.00	-0.59	-0.13	-0.82
219	-0.26	0.06	298	
220	-5.2 °C	-5.2 °C	9.7 °C	9.7 °C
221	27.0 °C	27.6 °C	35.2 °C	35.2 °C
222	42.0 °C	42.0 °C		
223				
224	0.4 %	0.5 %	-0.9 %	0.7 %
225	-1.0 %	0.3 %	0.0 °	0.0 °
226	12460 km	12460 km	-0.14 mg/h	0.08 mg/h
227	0.05 mg/h	0.01 mg/h	0.02 mg/h	-0.03 mg/h
228	2.055 V	2.060 V	0.0 °C	0000 0000
229	38.2 °C	0.0 °C	0.0 °C	0.0 °C
230	0.0 kg	0.0 kg	12460 km	
231				
232	38.2 °C	0000 0100	-1.6 %	2.8 %
233	-1.1 %	3.9 %	-1.1 %	3.9 %
234	-0.8 %	0.6 %	-0.8 %	0.6 %
235	91.5 °C	92.3 °C	8.2 °C	7.5 °C
236	92.3 °C	92.3 °C	0.0 s	0
237				
238	0.860 V	4.199 V		
239	1.308 V	4.116 V	1.416 V	4.107 V
240	0 km/h	1111 0111	0000 0011	0000 0000
241	mec_open_cps			
242	efppwm_plaus			
243	no_error			
244	no_error			
245	no_error			
246	no_error			
247	no_error			
248	no_error			
249	no_error			
250	0 %		0.053 V	
251	1.07 bar	5.15 bar	1.91 s	92.3 °C
252	173.89 bar	173.89 bar	655.35 s	92.3 °C
253	S62R7010 CB1A S0			
254	No AS active			

Datum: 07.10.2010 21:08:39

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F
Konfiguration: 0060 programmierbar
Systembezeichnung: 3.2l V6 FSI
Gerätenummer: 64638
Importeursnummer: 444
Betriebsnummer: 02136
Lange Codierung: 0104010902070120
Hardwareteilenummer: 8E0907559J
Seriennummer: XXXXXXXXXXXXXXXX
Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21---
Prüfstandnummer: 0394
Herstellernummer: 0442
Status des Flash: 0000 0000 1 1 0000 0000
Motor/Systemnummer: AUK
Fahrgestellnummer: Ex. 6

Fehlerspeicher

2 Fehler gespeichert

P0441 Tankentlüftungssystem Durchsatz fehlerhaft
0110 1000 unplausibles Signal
Bedingungen erfüllt
statisch
Warnlampe aus

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz
0110 0110 Kurzschluss nach Plus
Bedingungen erfüllt
statisch
Warnlampe aus

P0441 Tankentlüftungssystem Durchsatz fehlerhaft
0000 1000 Fehlerstatus
5 dez Priorität
1 dez Häufigkeitszähler
40 dez Verlernzähler
12708 km Kilometerstand
00.00.00 Datum
00:00:00 Uhrzeit
704 U/min Drehzahl
109 mg/H Luftmasse pro Hub
73.5 °C Temperatur

Leerlauf	Text aus Tabelle
15.7 %	Last
0 km/h	Geschwindigkeit

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0000 0001	Fehlerstatus
5 dez	Priorität
1 dez	Häufigkeitszähler
40 dez	Verlernzähler
12708 km	Kilometerstand
00.00.00	Datum
00:00:00	Uhrzeit
704 U/min	Drehzahl
109 mg/H	Luftmasse pro Hub
90.0 °C	Temperatur
Leerlauf	Text aus Tabelle
4.2 bar	Druck
0 km/h	Geschwindigkeit

Messwerte

1	0 U/min	75.0 °C	0.0 %	0.0 %
2	0 U/min	0 %	5.54 ms	985.6 mbar
3	0 U/min	982.8 mbar	5.1 %	-0.0 °v.OT
4	0 U/min	12.036 V	75.0 °C	42.7 °C
5	0 U/min	0 %	0 km/h	
6	0 U/min	0 %	42.7 °C	-3.0 %
7				
8				
9	63.0 mm	46.0 mm	0	0
10	0 U/min	0 %	5.1 %	-0.0 °v.OT
11	0 U/min	75.0 °C	42.7 °C	-0.0 °v.OT
12				
13				
14	0 U/min	0 %	0	gesperrt
15	0	0	0	gesperrt
16	0	0	0	gesperrt
17				
18	0 U/min	0 U/min	0 %	0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	0 %	0.00 KW	0.00 KW
23	0 U/min	0 %	0.00 KW	0.00 KW
24	0 U/min	0 %	0.00 KW	0.00 KW
25				
26	4.004 V	4.004 V	4.004 V	4.004 V
27	4.004 V	4.004 V		
28	0 U/min	0 %	75.0 °C	Test AUS
29				
30	___0 0100	___0100	___0 0100	___0100
31	1.00008	1.00008	1.00008	1.00008
32	2.1 %	2.9 %	-1.1 %	0.6 %
33	0.0 %	2.060 V	0.0 %	2.060 V

34	0 U/min	-33.0 °C	0.00977	Test AUS
35	0 U/min	-33.0 °C	0.03516	Test AUS
36	0.429 V	Test AUS	0.424 V	Test AUS
37	0 %	0.429 V	0.0 %	Test AUS
38	0 %	0.424 V	0.0 %	Test AUS
39	0.0 g/s	0.429 V	0.429 V	Test AUS
40				
41	0 Ohm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
42	0 Ohm	Hzg. vK. EIN	65.53 kOhm	Hzg. nK. EIN
43	0 U/min	-33.0 °C	0.429 V	aus
44	0 U/min	-33.0 °C	0.424 V	aus
45				
46	0 U/min	-33.0 °C	0.03907	Test AUS
47	0 U/min	-33.0 °C	0.02344	Test AUS
48				
49				
50	0 U/min	730 U/min	aus	Kompr. AUS
51	0 U/min	730 U/min	0	12.036 V
52				
53	0 U/min	730 U/min	12.036 V	0.0 Nm
54	0 U/min	0 %	5.5 %	
55	0 U/min	0.0 Nm	29.8 Nm	__00 0000
56	0 U/min	730 U/min	0.0 Nm	__00 0000
57	0 U/min	730 U/min	Kompr. AUS	0.7 Nm
58	0 U/min	0 %	aus	
59				
60	15.3 %	85.9 %	0	ADP. i.O.
61	0 U/min	12.036 V	0.0 %	__00 0000
62	15.3 %	85.9 %	14.9 %	7.5 %
63	14.9 %	89.4 %		gelernt
64	0.527 V	4.510 V	0.781 V	4.251 V
65				
66	0 km/h	0000 1000	0 km/h	1000 0001
67		0000 1000		
68	0 U/min	0 %	0	WK auf
69				
70	0 %	0.0 %	0.0 %	Test AUS
71	Reed auf			Test AUS
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85	12700 km	54	298	1400
86	0000 0000	1111 1111	0001 1111	0001 1111
87	0000 0000	0000 1000	0000 0000	0000 0000
88	1100 1111	0010 1101	1100 1000	
89	0 km	zu klein		

90	0 U/min	0 %	0.00 KW	0.00 KW
91	0 U/min	0 %	0.00 KW	0.00 KW
92	0 U/min	0 %	0.00 KW	0.00 KW
93				
94	0.00 KW	0.00 KW	Test AUS	Test AUS
95	0.0 %	0.0 %	0.000 V	ADP. i.O.
96	0.00 KW	0.00 KW	Test AUS	Test AUS
97	0 U/min	0 %	982.8 mbar	aus
98	0 U/min	0 %	0.00 KW	0.00 KW
99	0 U/min	75.0 °C	0.0 %	aus
100	0000 0000	75.0 °C	0.0 s	1001 0001
101	0 U/min	0 %	5.56 ms	982.8 mbar
102	0 U/min	75.0 °C	42.7 °C	5.56 ms
103	6.08 bar	0.0 %	25.0 %	ADP. läuft
104	75.0 °C	10.9 %	11.7 %	5.5 %
105	0 U/min	0 %	75.0 °C	ein
106	6.08 bar	10 %		1.99 s
107	0 U/min	0.0 %	0.0 %	aus
108				
109				
110				
111				
112				
113	0 U/min	0 %	15.3 %	982.8 mbar
114				
115				
116				
117				
118				
119				
120	0 U/min	496.0 Nm	19.3 Nm	ASR n.aktiv
121				
122	0 U/min	496.0 Nm	19.3 Nm	kein Eingr.
123				
124				
125	Getriebe 1	ABS 1	Kombi 1	Klima 1
126		Lenkwink. 1	Airbag 1	
127			Lenkrad 1	
128				
129				
130				
131				
132				
133				
134	75 °C	11.2 °C	42.7 °C	75.0 °C
135		10 %		
136			aus	
137	aus	Kompr. AUS	7.40 bar	0 %
138	75.0 °C	0.0 g/s	0 km/h	Test AUS
139	75.6 °C	0.0 kg	0.0 kg	Test AUS
140	0 %	55.00 bar	27.48 bar	inaktiv
141	0.00 bar	0	0	3
142	100 %	100.0 %	0.009 V	ADP. i.O.
143				
144	100 %	100.0 %	0.000 V	ADP. i.O.
145				

146				
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169				
170	aus	aus	aus	aus
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186				
187				
188				
189				
190	75.0 °C	0 %	0 U/min	5 °DK
191				
192				
193				
194				
195				
196				
197				
198				
199				
200				
201	71 %	9	6.99 bar	2.534 V

202	2.9 %	0.6 %	0.0 %	0.0 %
203	0 U/min	0 %	5.58 ms	5.58 ms
204	65.53 kOhm	65.53 kOhm	-33.0 °C	Test AUS
205	34.3 %	0.0 %	100.0 %	
206	0 %	0.0 %	0 %	0.0 %
207	0000 0001	12460 km	12460 km	0000 0000
208	0	0	0	0
209	0	0	804	gesperrt
210	0 U/min	0 %	0.0 mbar	0.00 KW
211	0.0 g/s	0.0 g/s		985.6 mbar
212	0 %	0.0 %	0 %	0.0 %
213	0 %	200 %	0.0 mbar	
214	0.5 %	-0.2 %	0.0 %	
215	0.26293	0.26217		
216	0.00000	0.00000	0	NA
217	0.00000	0.00000	0	NA
218	0.00	-0.59	-0.13	-0.82
219	-0.26	0.06	298	
220	-5.2 °C	-5.2 °C	9.7 °C	9.7 °C
221	27.0 °C	27.6 °C	35.2 °C	35.2 °C
222	42.0 °C	42.0 °C		
223				
224	0.4 %	0.5 %	-0.9 %	0.7 %
225	-1.0 %	0.3 %	0.0 °	0.0 °
226	12460 km	12460 km	-0.14 mg/h	0.08 mg/h
227	0.05 mg/h	0.01 mg/h	0.02 mg/h	-0.03 mg/h
228	2.060 V	2.060 V	0.0 °C	0000 0000
229	42.7 °C	0.0 °C	0.0 °C	0.0 °C
230	0.0 kg	0.0 kg	12460 km	
231				
232	42.7 °C	0000 0100	-1.6 %	2.8 %
233	-1.1 %	3.9 %	-1.1 %	3.9 %
234	-0.8 %	0.6 %	-0.8 %	0.6 %
235	75.0 °C	75.0 °C	8.2 °C	7.5 °C
236	75.0 °C	75.0 °C	0.0 s	0
237				
238	0.860 V	4.199 V		
239	1.308 V	4.116 V	1.416 V	4.107 V
240	0 km/h	1111 0111	0000 0011	0000 0000
241	mec_open_cps			
242	efppwm_plaus			
243	no_error			
244	no_error			
245	no_error			
246	no_error			
247	no_error			
248	no_error			
249	no_error			
250	0 %		0.053 V	
251	1.07 bar	1.03 bar	2.01 s	75.0 °C
252	173.89 bar	173.89 bar	655.35 s	75.0 °C
253	S62R7010 CB1A S0			
254	No AS active			

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Tom Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen
 Healy/OU=AA/O=USEPA/C=US@EPA;CN=Arvon
 Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim
 Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent
 Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Arvon
 Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim
 Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent
 Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim
 Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent
 Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim
 Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent
 Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim
 Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent
 Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent
 Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim
 Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Kim Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce
 Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Bruce Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark
 Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];
 N=Mark Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH

White/OU=AA/O=USEPA/C=US@EPA[]; N=JohnH White/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 10/14/2010 4:58:12 PM
Subject: Preliminary reply

Hi, Sebastian.

Thank you for your two letters, one asking for additional preconditioning and the other requesting approval for a revised vehicle preparation and preconditioning procedure. I am currently preparing letters replying to your questions. However, because the timing on these subjects is somewhat urgent, I am responding informally via e-mail and will respond with letters shortly.

In response to the request for preconditioning, we will not allow the additional preconditioning. Among other reasons, the request for preconditioning was limited to vehicles from model year 2007 and earlier. The current class is a 2008 model year test group.

Regarding the revised vehicle preparation and preconditioning procedure, we suggest a slightly different procedure than the one that you proposed: The vehicle will be run until the engine stalls. The vehicle will immediately be refilled with a gallon of indolene and the engine will be started and idled for five minutes to minimize the effect of the air trapped in the fuel system.

A second drain and fill will be conducted in the same way, however, the order of the second drain and fill in the FTP will change. The second drain and fill will come after the vehicle soak and before the preconditioning drive. This will give time for any air that may have been introduced into the fuel lines to be purged during the preconditioning drive. Because this preconditioning will occur after the drain and fill, EPA will not run an additional cold start FTP-72 as requested in your letter.

I apologize for this informal response to your letters and will follow up with a more formal response soon.

Please call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 10/14/2010 10:32:28 PM
Subject: 8AD XV03.1374 Confirmatory Testings EPA
[requested test procedure confirmatory program V2.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

As we discussed today I prepared a new flow chart as a basis of our meeting tomorrow.

We are fine with two drains and refills directly after another.

Our mayor concern is still the start adaption. So we just want to make sure that whenever there is a drain, the engine is warmed up and that we get the chance to look at the adaption values.

As I promised here is a short description about what we look at:

Our values are in the table 104 (Messwerteblock) of the printout.

In this block it shows 4 values.

1. value: Engine temperature in the moment
2. value: fuel injection factor in the temperature range of -10°C to 0°C
3. value: fuel injection factor in the temperature range of 0°C to 17°C
4. value: fuel injection factor in the temperature range of 17°C to 60°C

It would be great if we can talk about the procedure tomorrow. I will be there about 9.30 am and Marc will join the guys in the shop about 8 am.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 10/15/2010 9:52:30 PM
Subject: 8AD XV03.1374 Confirmatory Testings EPA
requested test procedure confirmatory program V3.pdf
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the updated version of the flow chart with what we discussed.

I hope I have everything included.

Please let me know if there needs to be something changed or added.

I will be in Ann Arbor at Monday morning about 8.00 am.

Thank you very much.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Vincent Mazaitis/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 10/18/2010 10:11:19 PM
Subject: RE: 8AD XV03.1374 Confirmatory Testings EPA
requested test procedure confirmatory program V4.pdf

Hello Lynn,

I updated the flow chart again in order to follow what I discussed with Vince.

I will be in Ann Arbor tomorrow morning as well. If you have any questions, just let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, October 18, 2010 9:29 AM
To: Berenz, Sebastian
Subject: Re: 8AD XV03.1374 Confirmatory Testings EPA

Hi, Sebastian.

I reviewed the updated version of the flow chart that you attached to the e-mail and it does reflect all of the changes that we discussed. I will forward the procedure to URS.

Thank you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/15/2010 05:53 PM

Subject: 8AD XV03.1374 Confirmatory Testings EPA

Hello Lynn,

Attached you will find the updated version of the flow chart with what we discussed.

I hope I have everything included.

Please let me know if there needs to be something changed or added.

I will be in Ann Arbor at Monday morning about 8.00 am.

Thank you very much.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

[attachment "requested test procedure confirmatory program V3.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
From: "Rhodes, Brian"
Sent: Tue 10/19/2010 3:03:23 PM
Subject: Updated Vehicle Test Parameters
[In-Use Parameters Form N001RXX-0018C.pdf](#)
[In-Use Parameters Form N001RXX-0043c-Ex. 6.pdf](#)
[In-Use Parameters Form N001RXX-0055C.pdf](#)
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hello Lynn,

Attached you will find the updated test parameters for all three Audis.

I changed the statement if a car is an front wheel drive or an all wheel drive.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

After starting the vehicle press ESP-Button and keep pressing for 3 second to disable the traction control.

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

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- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

After starting the vehicle press ESP-Button and keep pressing for 3 second to disable the traction control.

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 10/20/2010 1:31:30 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0080C (2008 Audi/A6) - VIN# Ex. 6 10/27/10 (Wednesday) 0900 vehicle pick up

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 10/20/2010 1:58:59 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N001RXX-0055C.pdf
requested test procedure confirmatory program V4.pdf

Hello Lynn,

See attached files for the 4th cars coming in.
We will be in Ann Arbor to do the inspection with you.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, October 20, 2010 9:32 AM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0080C (2008 Audi/A6) - VIN# Ex. 6 10/27/10
(Wednesday) 0900 vehicle pick up

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.

Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

After starting the vehicle press ESP-Button and keep pressing for 3 second to disable the traction control.

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

After starting the vehicle press ESP-Button and keep pressing for 3 second to disable the traction control.

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 10/20/2010 7:01:35 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N001RXX-0080C.pdf
requested test procedure confirmatory program V4.pdf

Hello Lynn,

You are right. I'm very sorry I send you the wrong sheet.

Attached you will find the correct one.

There is no difference except the control number. Both cars are Audi A6 all wheel drives.

Sorry for that.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, October 20, 2010 2:58 PM
To: Berenz, Sebastian
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

It was brought to my attention that the control number on the parameters sheet is incorrect (N001RXX-0055C instead of N001RXX-0080C). Is the information in the sheet also for N001RXX-0055C?

Lynn Sohacki

Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/20/2010 09:59 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

See attached files for the 4th cars coming in.
We will be in Ann Arbor to do the inspection with you.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 20, 2010 9:32 AM

To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0080C (2008 Audi/A6) - VIN# **Ex. 6** 10/27/10
(Wednesday) 0900 vehicle pick up

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel.
Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls) (See attached file: In-Use Parameters Form_N001RXX-0055C.pdf)(See attached file: requested test procedure confirmatory program V4.pdf)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 10/21/2010 7:36:00 PM
Subject: N001RXX-0018C
In-Use Parameters FormV2_N001RXX-0018C.pdf
sebastian.berenz@vw.com

Hello Lynn,

I have attached I have an updated version of the cars parameters.

You are right with the desmo.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 10/21/2010 7:41:41 PM
Subject: Re: N001RXX-0018C
sebastian.berenz@vw.com

Thank you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/21/2010 03:37 PM
Subject: N001RXX-0018C

Hello Lynn,

I have attached I have an updated version of the cars parameters.
You are right with the desmo.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
[attachment "In-Use Parameters FormV2_N001RXX-0018C.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 10/21/2010 8:09:32 PM
Subject: A6 quattro updates
[In-Use Parameters FormV2 N001RXX-0080C.pdf](#)
[In-Use Parameters FormV2 N001RXX-0055C.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

I had to update the A6 quattro parameters as well. The weight wasn't correct in it.

Attached you will find the updated versions.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

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3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

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National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

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Canister Loading Process:

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- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 10/21/2010 8:38:43 PM
Subject: FW: A6 quattro updates
[In-Use Parameters FormV3 N001RXX-0055C.pdf](#)
[In-Use Parameters FormV3 N001RXX-0080C.pdf](#)
[In-Use Parameters FormV2 N001RXX-0018C.pdf](#)
[In-Use Parameters FormV2 N001RXX-0043c.pdf](#)
sebastian.berenz@vw.com
sebastian.berenz@vw.com

STOP:

Hello Lynn,

By looking at all sheets again, I noticed that I send you the wrong versions for both A6 again.

The weight was wrong in the sheets. It needs to be 4250 lbs and not 4500 lbs. Sorry for that. Please take these attached sheets V3.

That is for car #0080 and #0055.

I also attached the parameters for car #0018. There is no change in it! I just wanted to make sure that you have all of our data in one mail.

The big problem is that for car #0043 we used the wrong parameters. The car has been already tested today.

I updated them. See attached sheet V2.

Please let me know what you decide on this.

I'm very sorry for all that misunderstandings!

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Thursday, October 21, 2010 4:10 PM
To: 'Sohacki.Lynn@epamail.epa.gov'
Subject: A6 quattro updates

Hello Lynn,

I had to update the A6 quattro parameters as well. The weight wasn't correct in it.

Attached you will find the updated versions.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

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Phone: (248) 754-4211

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E-Mail: sebastian.berenz@vw.com

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P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

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To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

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Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

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Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

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Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

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A Lb-force

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C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

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Fuel Switch Process (Flex Fuel only):

Comments:

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(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

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Date:

EG&G Representative:

Date:

EPA Representative:

Date:



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2565 Plymouth Road, Ann Arbor, Michigan 48105

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A Lb-force

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C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

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Comments:

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- * Other (specify)

Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

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A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

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To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

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Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 10/22/2010 2:56:48 PM
Subject: test parameter list
[Road parameters list.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find a list of all test parameters of all types of cars that are certified in the testgroup 8AD XV03.1374.

I hope this fits into what you need.

Is there a chance to get the results of the first A4 from yesterday?

Thank you very much and sorry again for all that mistakes.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487

FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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Testgroup: 8ADXV03.1374
EVAP Family: 8ADXR0140282

vehicle parameters

	transmission	tank capacity total [gallon]	40% tank capacity total [gallon]	weight [lbs]	Target Coeff A [lb-force]	Target Coeff B [lb-force*mp/h]	Target Coeff C [lb-force*mp/h ²]
Audi A4 Sedan front wheel drive	automatic	18.5	7.4	3875	31.92	0.235	0.0176
Audi A4 Sedan all wheel drive	automatic	16.6	6.64	4000	37.77	0.467	0.0182
Audi A4 Sedan all wheel drive	manual	16.6	6.64	4000	30.8	0.311	0.0177
Audi A4 Cabrio all wheel drive	automatic	16.6	6.64	4500	40.02	0.463	0.0177
Audi A4 Avant front wheel drive	automatic	18.5	7.4	4000	31.92	0.235	0.0176
Audi A4 Avant all wheel drive	automatic	16.6	6.64	4250	37.77	0.467	0.0182
Audi A6 Sedan front wheel drive	automatic	18.5	7.4	4250	40.69	0.246	0.0171
Audi A6 Sedan all wheel drive	automatic	16.6	6.64	4250	38.22	0.47	0.0172
Audi A6 Avant all wheel drive	automatic	16.6	6.64	4500	38.22	0.47	0.0172

VMGoA
FEO
10/22/2010

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 10/22/2010 3:02:11 PM
Subject: Re: test parameter list
sebastian.berenz@vw.com

Thank you, Sebastian. This is just what I was looking for.

I think that I can get the official data to you but I have not received it yet.

Have a nice weekend!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/22/2010 10:57 AM
Subject: test parameter list

Hello Lynn,

Attached you will find a list of all test parameters of all types of cars that are certified in the testgroup 8AD XV03.1374.

I hope this fits into what you need.

Is there a chance to get the results of the first A4 from yesterday?

Thank you very much and sorry again for all that mistakes.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
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Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
[attachment "Road parameters list.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: mike.hennard@VW.com[]
Cc: CN=Tom Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 10/22/2010 5:59:22 PM
Subject: More information re the Audi Q7
mike.hennard@vw.com

Hi, Mike.

We are still waiting for some answers to questions regarding Q7 class that were brought up during our 7/29/10 meeting. Specifically, was the MIL on when VW recruited Ex. 6 Please give us a description of the fault that was recorded that led to the VW fix. What were the number of warranty claims for the component that was replaced on Ex. 6?

Thank you in advance for your answers.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/22/2010 01:40 PM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Hennard, Mike" <mike.hennard@vw.com>
Date: 08/12/2010 04:27 PM
Subject: Re: VW Presentations - July 29

Hi, Mike.

We are wondering if you have answers to the other questions that we posed to VW during our meeting. Specifically, you were going to investigate whether the MIL was on or if any fault codes were set when VW recruited vehicle with VIN ending Ex. 6 after it failed at EPA.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart" <Stuart.Johnson@vw.com>
Date: 08/05/2010 09:33 AM
Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America

3800 Hamlin Road

Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207

mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8ADXV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 10/25/2010 5:42:31 PM
Subject: N001-0043c data with incorrect weight
[N001RXX-0043C.pdf](#)
(embedded image)

Hi, Sebastian.


Here is the data for the above vehicle. As I mentioned, this data will be completely replaced by the next test which will be run with the correct weight.

Please let me know if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

C15D

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2010-0367-002			Vehicle ID: N001RXX-0043C				
<div>  <div> Test Information Test Date: 10/21/2010 Key Start / Hot Soak: 13:11:48 / 09:48 Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp) Calculation Method: Gasoline Pretest Remarks: </div> <div> MFR Name: AUDI MFR Codes: 640 Config #: 00 Transmission: AUTO Shift Schedule: A09980005 Beginning Odometer: 007933.0 MI Drive Schedule: ftp3bag Soak Period: 29.6 hours </div> </div>							
Bag Data		HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample		19.025	39.882	2.134	1.042	3.315	
Ambient		2.468	0.000	0.005	0.042	1.886	
Net Concentration		16.750	39.882	2.129	1.003	1.577	14.948
Remarks:							
Phase 2							
Sample		2.346	0.184	0.214	0.667	1.802	
Ambient		2.429	0.000	0.007	0.042	1.885	
Net Concentration		0.037	0.184	0.207	0.628	0.010	0.026
Remarks:							
Phase 3							
Sample		2.610	4.538	0.974	0.889	1.893	
Ambient		2.452	0.000	0.006	0.042	1.884	
Net Concentration		0.321	4.538	0.968	0.850	0.134	0.168
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results		HC-FID	CO	NOx	CO2	CH4	NMHC
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
Phase 1		0.208	1.002	0.080	396.0	0.023	0.186
Phase 2		0.001	0.007	0.012	396.1	0.000	0.001
Phase 3		0.004	0.114	0.036	337.1	0.002	0.002
Weighted		0.04474	0.24325	0.03304	379.856	0.00536	0.03944
Fuel Economy		Gasoline MPG				Dyno Settings	
Phase 1		22.30				Dyno #: D329 - FWD	
Phase 2		22.42				Inertia: 4000	
Phase 3		26.33				EPA Set Co A: 8.68	
Weighted		23.34				EPA Set Co B: 0.4497	
						EPA Set Co C: 0.01717	
						Emiss-Bench: Mexa 7200sle	

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2010-0367-002

Vehicle ID: N001RXX-0043C

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.747	3.590	0.286	1419.5	0.081	0.666	1.143
Phase 2	0.003	0.028	0.048	1521.4	0.001	0.002	
Phase 3	0.014	0.410	0.131	1208.5	0.007	0.008	



Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.86	28.86	28.87	
Avg Cell Temp (degF)	74.49	75.17	74.47	
Dew Point (degF)	49.12	49.05	49.17	
Specific Humidity (grains/lbm)	53.72	53.58	53.80	
NOx Corr Factor	0.9091	0.9085	0.9094	
CO2 Dilution Factor	12.788	20.074	15.058	
CFV Vmix (scf @68F)	2730.44	4678.11	2743.12	
CVS Flow Rate Avg (scfm)	323.13	322.41	324.95	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.00	870.60	506.51	
Distance (miles)	3.585	3.841	3.585	
Bag Analysis Time (secs)	880.1	1110.2	120.6	

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

CISD

NVFEL Laboratory Test Data Final Laboratory Test Results

CVS

Test Information

Test Number: 2010-0367-003

Vehicle ID: N001RXX-0043C

Test Date: 10/21/2010

MFR Name: AUDI

Key Start: 14:31:50

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 007943.0 MI

Pretest Remarks:

Drive Schedule: hwfet_hwfet

Bag Data**Phase 1**

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.407	19.978	0.297	1.211	1.979	
Ambient	2.478	0.000	0.002	0.042	1.886	
Net Concentration	1.153	19.978	0.295	1.173	0.264	0.851

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.008	0.264	0.006	243.8	0.002	0.006	36.400

Fuel Economy

Gasoline MPG
Phase 1 36.36

Dyno Settings

Dyno #: D329 - FWD
Inertia: 4000
EPA Set Co A: 8.68
EPA Set Co B: 0.4497
EPA Set Co C: 0.01717

Emiss-Bench: Mexa 7200slc

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2010-0367-003

Vehicle ID: N001RXX-0043C

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.077	2.703	0.060	2494.6	0.020	0.057	1.143

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.87			
Avg Cell Temp (degF)	75.18			
Dew Point (degF)	49.09			
Specific Humidity (grains/lbm)	53.63			
NOx Corr Factor	0.9087			
CO2 Dilution Factor	11.041			
CFV Vmix (scf @68F)	4104.25			

CVS Flow Rate Avg (scfm) 321.90

Fan Placement: One Fan - Up - Front
Phase Time (secs) 765.00
Distance (miles) 10.231
Bag Analysis Time (secs) 104.8

I have validated the data in accordance with the requirements of TP 730

Validated By:  Date: 10/21/10



N001RXX-0043C.pdf

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 10/25/2010 6:07:24 PM
Subject: RE: N001-0043c data with incorrect weight

Hello Lynn,

Thank you very much.

Sebastian

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, October 25, 2010 1:43 PM

To: Berenz, Sebastian

Subject: N001-0043c data with incorrect weight

Hi, Sebastian.

Here is the data for the above vehicle. As I mentioned, this data will be completely replaced by the next test which will be run with the correct weight.

Please let me know if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: N001RXX-0043C.pdf)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 10/25/2010 7:09:52 PM
Subject: Test results N001RXX-0043C
sebastian.berenz@vw.com

Hello Lynn,

I looked at the "unofficially" test results of car N001RXX-0043C, which were quite good.

The car passed the standards even under harder conditions like the heavier weight and stronger coefficients from the all wheel drive version.

That shows from Volkswagen's point of view that the system is working fine.

So Volkswagen would definitely accept these results. If you like to give the car back to the customer and save another test on this car, it would be fine with us.

We are looking forward to get results from the other cars that we inspected in your lab.

Let me know if this would work out for you.

Thank you very much.

Best regards

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 10/25/2010 8:34:23 PM
Subject: Re: Test results N001RXX-0043C
sebastian.berenz@vw.com

Hi, Sebastian.

We will test the vehicle with the correct weight but I appreciate your e-mail.

Thanks

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/25/2010 03:10 PM
Subject: Test results N001RXX-0043C

Hello Lynn,

I looked at the "unofficially" test results of car N001RXX-0043C, which were quite good. The car passed the standards even under harder conditions like the heavier weight and stronger coefficients from the all wheel drive version. That shows from Volkswagen's point of view that the system is working fine.

So Volkswagen would definitely accept these results. If you like to give the car back to the customer and save another test on this car, it would be fine with us. We are looking forward to get results from the other cars that we inspected in your lab.

Let me know if this would work out for you.

Thank you very much.

Best regards

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 10/28/2010 5:25:29 PM
Subject: Test data for in-use vehicle N001-0018c
[N001RXX-0018C.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C150

NVFEL Laboratory Test Data Final Laboratory Test Results

CVS

Test Number: 2011-0002-003

Vehicle ID: N001RXX-0018C

Test Information

Test Date: 10/27/2010

MFR Name AUDI

Key Start: 14:24:34

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 022952.0 MI

Pretest Remarks:

Drive Schedule: hwfet_hwfet

**Bag Data**

	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	4.019	51.332	0.207	1.232	2.209	
Ambient	2.551	0.000	0.010	0.043	1.904	
Net Concentration	1.704	51.332	0.198	1.193	0.481	1.154

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.011	0.674	0.004	246.0	0.004	0.008	35.981

Fuel Economy

Gasoline MPG
Phase 1 35.95

Dyno Settings

Dyno #: D329 - AWD
Inertia: 4000
EPA Set Co A: -2.42
EPA Set Co B: 0.1225
EPA Set Co C: 0.01689

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0002-003

Vehicle ID: N001RXX-0018C

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.113	6.896	0.040	2518.4	0.037	0.077	1.143

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.67			
Avg Cell Temp (degF)	75.24			
Dew Point (degF)	49.00			
Specific Humidity (grains/lbm)	53.84			
NOx Corr Factor	0.9095			
CO2 Dilution Factor	10.825			
CFV Vmix (scf @68F)	4074.58			
 CVS Flow Rate Avg (scfm)	 319.53			
 Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.10			
Distance (miles)	10.237			
Bag Analysis Time (secs)	104.8			

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

10/27/10

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0002-002

Vehicle ID: N001RXX-0018C

Test Information

Test Date: 10/27/2010

MFR Name: AUDI

Key Start / Hot Soak: 13:10:40 / 09:43

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)

Shift Schedule: A09980005

Calculation Method: Gasoline

Beginning Odometer: 022941.0 MI

Pretest Remarks:

Drive Schedule: ftp3bag

Soak Period: 20.5 hours



Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	22.296	73.430	1.671	1.115	3.497	
Ambient	2.474	0.000	0.013	0.043	1.910	
Net Concentration	20.030	73.430	1.660	1.075	1.747	18.033

Remarks:

Phase 2

Sample	2.726	9.306	0.045	0.714	1.879	
Ambient	2.403	0.000	0.014	0.043	1.907	
Net Concentration	0.451	9.306	0.031	0.673	0.074	0.366

Remarks:

Phase 3

Sample	4.263	20.089	0.598	0.937	2.131	
Ambient	2.412	0.000	0.013	0.044	1.905	
Net Concentration	2.021	20.089	0.586	0.896	0.359	1.610

Remarks:

Phase 4

Sample	
Ambient	
Net Concentration	

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.248	1.839	0.062	423.2	0.025	0.224	20.827
Phase 2	0.009	0.370	0.002	420.6	0.002	0.007	21.109
Phase 3	0.025	0.503	0.022	352.4	0.005	0.020	25.165
Weighted	0.06290	0.71059	0.01983	402.413	0.00748	0.05551	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #:
Phase 1	20.81		D329 - AWD
Phase 2	21.09		Inertia: 4000
Phase 3	25.14		EPA Set Co A: -2.42
			EPA Set Co B: 0.1225
			EPA Set Co C: 0.01689
Weighted	22.02		Emiss-Bench: Mexa 7200sle

v101007 - d329 EPAVDAEm101027125602

Page 1 of 2

Print Time 27-Oct-2010 14:08

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0002-002

Vehicle ID: N001RXX-0018C

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.889	6.580	0.222	1514.4	0.090	0.800	1.143
Phase 2	0.034	1.428	0.007	1621.8	0.007	0.028	
Phase 3	0.090	1.804	0.079	1264.4	0.018	0.072	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.70	28.69	28.68	
Avg Cell Temp (degF)	74.72	74.32	74.80	
Dew Point (degF)	48.99	49.03	48.97	
Specific Humidity (grains/lbm)	53.77	53.86	53.76	
NOx Corr Factor	0.9093	0.9096	0.9092	
CO2 Dilution Factor	11.915	18.745	14.263	
CFV Vmix (scf @68F)	2717.94	4652.68	2723.03	
CVS Flow Rate Avg (scfm)	321.71	320.73	322.70	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.90	870.40	506.30	
Distance (miles)	3.578	3.856	3.587	
Bag Analysis Time (secs)	879.9	1104.8	120.0	

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 10/29/2010 2:11:17 PM
Subject: Test data for in-use vehicle N001-0043c
[N001RXX-0043C.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C15D

NVFEL Laboratory Test Data						CVS	
Final Laboratory Test Results							
Test Number: 2010-0367-005			Vehicle ID: N001RXX-0043C				
Test Date: 10/28/2010			MFR Name: AUDI				
Key Start / Hot Soak: 13:01:06 / 09:31			MFR Codes: 640 ADX				
Fuel Container ID: F00023			Config #: 00				
Fuel Type: 61 Tier 2 Cert Test Fuel			Transmission: AUTO				
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)			Shift Schedule: A09980005				
Calculation Method: Gasoline			Beginning Odometer: 008000.0 MI				
Pretest Remarks:			Drive Schedule: ftp3bag				
			Soak Period: 20.1 hours				
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	21.508	46.088	2.327	1.007	3.781		
Ambient	2.509	0.000	0.011	0.042	1.890		
Net Concentration	19.189	46.088	2.317	0.969	2.034	16.864	
Remarks:							
Phase 2							
Sample	2.416	1.333	0.195	0.645	1.812		
Ambient	2.463	0.000	0.012	0.042	1.891		
Net Concentration	0.071	1.333	0.184	0.605	0.012	0.057	
Remarks:							
Phase 3							
Sample	2.742	2.410	2.082	0.835	1.925		
Ambient	2.589	0.000	0.012	0.042	1.887		
Net Concentration	0.314	2.410	2.071	0.796	0.156	0.136	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.240	1.163	0.087	384.0	0.029	0.211	22.997
Phase 2	0.001	0.054	0.011	383.1	0.000	0.001	23.202
Phase 3	0.004	0.061	0.078	316.4	0.002	0.002	28.090
Weighted	0.05159	0.28592	0.04523	364.951	0.00687	0.04480	
Fuel Economy	<u>Gasoline MPG</u>					<u>Dyno Settings</u>	<u>Dyno #:</u> D329 - FWD
Phase 1	22.97						Inertia: 3875
Phase 2	23.18						EPA Set Co A: 3.62
Phase 3	28.06						EPA Set Co B: 0.2701
							EPA Set Co C: 0.01611
Weighted	24.29						Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0367-005

Vehicle ID: N001RXX-0043C

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.861	4.175	0.312	1378.9	0.106	0.757	1.143
Phase 2	0.005	0.207	0.042	1474.0	0.001	0.004	
Phase 3	0.014	0.219	0.280	1136.6	0.008	0.006	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.02	29.02	29.03	
Avg Cell Temp (degF)	74.70	74.86	74.54	
Dew Point (degF)	48.93	48.90	48.95	
Specific Humidity (grains/lbm)	53.04	52.98	53.07	
NOx Corr Factor	0.9065	0.9062	0.9065	
CO2 Dilution Factor	13.216	20.775	16.044	
CFV Vmix (scf @68F)	2747.50	4701.77	2756.93	
CVS Flow Rate Avg (scfm)	325.15	324.26	326.71	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.00	870.00	506.30	
Distance (miles)	3.591	3.847	3.592	
Bag Analysis Time (secs)	879.5	1092.8	120.6	

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

10-28-10

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0367-006

Vehicle ID: N001RXX-0043C

Test Information



Test Date: 10/26/2010

Key Start: 14:14:27

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 008011.0 MI

Drive Schedule: hwfet_hwfet

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.750	15.119	0.269	1.116	2.043	
Ambient	2.696	0.000	0.007	0.042	1.883	
Net Concentration	1.278	15.119	0.263	1.077	0.317	0.916

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.008	0.201	0.005	225.4	0.002	0.006	39.386

Fuel Economy

Gasoline MPG
Phase 1 39.35

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3875
EPA Set Co A: 3.62
EPA Set Co B: 0.2701
EPA Set Co C: 0.01611

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2010-0367-006

Vehicle ID: N001RXX-0043C

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.086	2.058	0.053	2304.6	0.025	0.062	1.143

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.03			
Avg Cell Temp (degF)	74.78			
Dew Point (degF)	48.91			
Specific Humidity (grains/lbm)	52.98			
NOx Corr Factor	0.9082			
CO2 Dilution Factor	11.991			
CFV Vmix (scf @68F)	4128.61			

CVS Flow Rate Avg (scfm) 323.77

Fan Placement: One Fan - Up - Front

Phase Time (secs) 765.10
Distance (miles) 10.225
Bag Analysis Time (secs) 104.8

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: Sohacki.Lynn@epamail.epa.gov[]
From: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US
Sent: Tue 11/2/2010 11:29:08 AM
Subject: 0055C

Good morning Sebastian,

The Subject vehicle will Roadload and prep tomorrow (11/3/10) and test Thursday 11/4/10. I'll contact you as soon as I can get a probable start time.

Thanks Sebastian,

Vince Mazaitis

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 11/4/2010 5:13:28 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# Ex. 6, 11/08/10 (Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 11/4/2010 6:20:20 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N148RXX-0162_WWWUK73C38E164190.pdf
Fuel Drain Instructions.pdf

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1l, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, November 04, 2010 1:13 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# Ex. 6 11/08/10

(Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Sebastian Berenz VWGoA Date: 11/4/2010

EG&G Representative: _____ Date: _____

EPA Representative: _____ Date: _____

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 11/4/2010 6:34:45 PM
Subject: RE: In-use vehicles scheduled for next week

Thank you, Sebastian.

John White of URS will probably be calling you about the maintenance time.

I haven't gotten the official data for the Audi A-6 yet. I'll forward it to you as soon as possible.

Regards.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 11/04/2010 02:21 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1l, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, November 04, 2010 1:13 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** 11/08/10
(Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

[attachment "In-Use Parameters Form_N148RXX-0162" deleted by Lynn
Sohacki/AA/USEPA/US] **Ex. 6** [attachment "Fuel Drain Instructions.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

Ex. 6

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 11/5/2010 2:14:09 PM
Subject: Test data for in-use vehicle N001-0055c
[N001RXX-0055C.pdf](#)

Hi, Bernard,

The data for the above vehicle is attached. Please give me a call if you have any questions.

Have a nice weekend!

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C15D

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0010-003		Vehicle ID: N001RXX-0055C					
Test Date: 11/4/2010		MFR Name: AUDI					
Key Start: 10:04:32		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011					
Calculation Method: Gasoline		Beginning Odometer: 015236.0 MI					
Pretest Remarks:		Drive Schedule: hwfet_hwfet					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	4.233	39.317	0.458	1.309	2.143		
Ambient	3.098	0.000	0.028	0.045	2.052		
Net Concentration	1.439	39.317	0.432	1.268	0.292	1.106	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.009	0.519	0.009	263.0	0.002	0.007	33.694
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	33.66	Dyno #: D329 - AWD					
		Inertia: 4250					
		EPA Set Co A: 5.03					
		EPA Set Co B: 0.2051					
		EPA Set Co C: 0.01729					
		Emiss-Bench: Mexa 7200sle					

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0010-003

Vehicle ID: N001RXX-0055C

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.096	5.313	0.087	2693.3	0.023	0.074	1.143

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.77			
Avg Cell Temp (degF)	74.93			
Dew Point (degF)	49.11			
Specific Humidity (grains/lbm)	53.87			
NOx Corr Factor	0.9097			
CO2 Dilution Factor	10.201			
CFV Vmix (scf @68F)	4098.95			

CVS Flow Rate Avg (scfm) 321.44

Fan Placement: One Fan - Up - Front

Phase Time (secs) 765.10
Distance (miles) 10.239
Bag Analysis Time (secs) 105.9

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

C15D

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0010-002		Vehicle ID: N001RXX-0055C					
Test Date: 11/4/2010		MFR Name: AUDI					
Key Start / Hot Soak: 08:45:56 / 10:08		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 015225.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 16.9 hours					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	25.212	57.960	2.096	1.160	3.846		
Ambient	3.284	0.000	0.030	0.045	2.044		
Net Concentration	22.215	57.960	2.069	1.119	1.980	19.951	
Remarks:							
Phase 2							
Sample	3.572	9.497	0.034	0.737	1.990		
Ambient	3.411	0.000	0.028	0.044	2.040		
Net Concentration	0.349	9.497	0.007	0.696	0.062	0.278	
Remarks:							
Phase 3							
Sample	6.621	35.809	0.415	0.975	2.407		
Ambient	3.261	0.000	0.027	0.045	2.037		
Net Concentration	3.598	35.809	0.390	0.933	0.518	3.006	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.275	1.451	0.077	440.2	0.028	0.247	20.053
Phase 2	0.007	0.379	0.000	436.0	0.001	0.005	20.363
Phase 3	0.045	0.899	0.015	368.1	0.007	0.037	24.055
Weighted	0.07294	0.74397	0.02027	418.197	0.00867	0.06437	
Fuel Economy	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					<u>Dyno #:</u> D329 - AWD
Phase 1	20.03						Inertia: 4250
Phase 2	20.34						EPA Set Co A: 5.03
Phase 3	24.03						EPA Set Co B: 0.2051
							EPA Set Co C: 0.01729
Weighted	21.18						Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0010-002

Vehicle ID: N001RXX-0055C

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.988	5.204	0.277	1578.7	0.102	0.887	1.143
Phase 2	0.027	1.461	0.002	1682.0	0.005	0.021	
Phase 3	0.161	3.232	0.053	1323.2	0.027	0.134	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.77	28.77	28.77	
Avg Cell Temp (degF)	74.31	75.28	73.73	
Dew Point (degF)	49.19	49.00	49.07	
Specific Humidity (grains/lbm)	54.05	53.65	53.77	
NOx Corr Factor	0.9104	0.9088	0.9093	
CO2 Dilution Factor	11.469	18.138	13.688	
CFV Vmix (scf @68F)	2723.10	4666.80	2737.65	
CVS Flow Rate Avg (scfm)	322.20	321.66	324.11	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.10	870.50	506.80	
Distance (miles)	3.586	3.858	3.595	
Bag Analysis Time (secs)	880.0	1129.4	121.0	

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 11/9/2010 1:42:17 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N002RXX-0133C (2008 Audi/A6) - VIN# Ex. 6 1000 Veh. Pick up on 11/16/10 (Tuesday)

N001RXX-0136C (2008 Audi/A6) - VIN# Ex. 6 0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

- vehicle target road-load coefficients
- fuel tank capacity
- 40% tank capacity
- tire pressure
- applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 11/9/2010 3:53:24 PM
Subject: RE: In-use vehicles scheduled for next week
[N002RXX-0133C In-Use Parameters Form.pdf](#)
[N001RXX-0136C In-Use Parameters Form.pdf](#)
[requested test procedure confirmatory program V4.pdf](#)

Hello Lynn,

attached you will find the test parameters for two Audis for next week.
I also attached the procedure which we used for the last Audis.

It would be great if you can send me the test results of N001RXX-0080C when they are available.

Please let me know if you have any questions.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, November 09, 2010 8:42 AM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N002RXX-0133C (2008 Audi/A6) - VIN#

Ex. 6

1000 Veh. Pick up on 11/16/10 (Tuesday)

N001RXX-0136C (2008 Audi/A6) - VIN#

Ex. 6

0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mpg

C Lb-force*mpg²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mpg

C Lb-force*mpg²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Date:

EG&G Representative: Date:

EPA Representative: Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Date:

EG&G Representative: Date:

EPA Representative: Date:

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 11/10/2010 5:40:18 PM
Subject: Test data for in-use vehicle N001-0080c
[N001RXX-0080C.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C1SD
CVS

NVFEL Laboratory Test Data
Final Laboratory Test Results

Test Number: 2011-0021-003

Vehicle ID: N001RXX-0080C

Test Information



Test Date: 11/9/2010
Key Start: 10:40:00
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 03 HWFET (hwfetprep_hwfet)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980011
Beginning Odometer: 019997.0 MI
Drive Schedule: hwfet_hwfet

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.742	30.032	0.376	0.891	2.339	
Ambient	3.114	0.052	0.060	0.047	2.309	
Net Concentration	0.836	29.984	0.320	0.846	0.184	0.626

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.008	0.579	0.009	257.0	0.002	0.006	34.469

Fuel Economy

Gasoline MPG
Phase 1 34.44

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4250

EPA Set Co A: -0.45

EPA Set Co B: 0.2586

EPA Set Co C: 0.01656

Emiss-Bench: Mexa 7200sle

CVS

Vehicle ID: N001RXX-0080C

Results

	<u>HC-FID</u> (grams)	<u>CO</u> (grams)	<u>NOx</u> (grams)	<u>CO2</u> (grams)	<u>CH4</u> (grams)	<u>NMHC</u> (grams)	<u>Meth Response</u>
Phase 1	0.082	5.943	0.095	2636.3	0.021	0.061	1.143



Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.13			
Avg Cell Temp (degF)	74.71			
Dew Point (degF)	49.24			
Specific Humidity (grains/lbm)	53.46			
NOx Corr Factor	0.9081			
CO2 Dilution Factor	14.989			
CFV Vmix (scf @68F)	6011.93			

CVS Flow Rate Avg (scfm)	471.46
--------------------------	--------

Fan Placement:	One Fan - Up - Front
Phase Time (secs)	765.10
Distance (miles)	10.258
Bag Analysis Time (secs)	104.8

I have validated the data in accordance with the requirements of TP 730

Validated By:

Date:

C150

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Information



Test Number: 2011-0021-002	Vehicle ID: N001RXX-0080C
Test Date: 11/9/2010	MFR Name: AUDI
Key Start / Hot Soak: 09:19:10 / 09:37	MFR Codes: 640 ADX
Fuel Container ID: F00023	Config #: 00
Fuel Type: 61 Tier 2 Cert Test Fuel	Transmission: AUTO
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp	Shift Schedule: A09980005
Calculation Method: Gasoline	Beginning Odometer: 019986.0 MI
Pretest Remarks:	Drive Schedule: ftp3bag
	Soak Period: 19.8 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	19.545	46.206	2.269	1.147	3.719	
Ambient	3.111	0.011	0.098	0.046	2.259	
Net Concentration	16.702	46.196	2.180	1.104	1.655	14.810

Remarks:

Phase 2

Sample	3.192	12.945	0.072	0.728	2.182	
Ambient	3.077	0.001	0.072	0.045	2.265	
Net Concentration	0.283	12.944	0.004	0.685	0.040	0.237

Remarks:

Phase 3

Sample	3.944	17.670	0.196	0.949	2.415	
Ambient	3.060	0.000	0.058	0.046	2.260	
Net Concentration	1.101	17.670	0.142	0.905	0.315	0.741

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.211	1.177	0.083	442.1	0.024	0.187	19.995
Phase 2	0.006	0.527	0.000	438.5	0.001	0.005	20.238
Phase 3	0.014	0.452	0.005	364.1	0.005	0.009	24.367
Weighted	0.05061	0.64172	0.01881	418.775	0.00677	0.04392	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #: D329 - AWD
Phase 1	19.98		Inertia: 4250
Phase 2	20.22		EPA Set Co A: -0.45
Phase 3	24.34		EPA Set Co B: 0.2586
			EPA Set Co C: 0.01656
Weighted	21.14		Emiss-Bench: Mexa 7200sle

v101007 - d329 EPAVDAEm101109090557

Page 1 of 2

Print Time 09-Nov-2010 10:12

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0021-002

Vehicle ID: N001RXX-0080C

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.754	4.212	0.296	1582.3	0.086	0.669	1.143
Phase 2	0.022	2.016	0.001	1676.0	0.004	0.018	
Phase 3	0.050	1.614	0.019	1299.6	0.017	0.034	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.13	29.13	29.13	
Avg Cell Temp (degF)	75.07	74.29	74.81	
Dew Point (degF)	49.11	49.06	49.15	
Specific Humidity (grains/lbm)	53.21	53.10	53.29	
NOx Corr Factor	0.9071	0.9067	0.9074	
CO2 Dilution Factor	11.618	18.369	14.095	
CFV Vmix (scf @68F)	2765.19	4723.31	2770.17	
CVS Flow Rate Avg (scfm)	327.11	325.93	328.09	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.20	869.50	506.60	
Distance (miles)	3.579	3.822	3.569	
Bag Analysis Time (secs)	879.0	1100.3	120.9	

I have validated the data in accordance with the requirements of TP 730

Validated By: _____

Date: _____

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 11/10/2010 6:24:30 PM
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

This sheet indicates that this vehicle is an auto trans. Actually, it is a manual. Please send the shift schedule you'd like us to use.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 11/04/2010 02:21 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1l, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, November 04, 2010 1:13 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** 11/08/10
(Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

[attachment "In-Use Parameters Form_N148RXX-0162 _**Ex. 6** pdf" deleted by Lynn
Sohacki/AA/USEPA/US] [attachment "Fuel Drain Instructions.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 11/10/2010 8:23:52 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N148RXX-0162 **Ex. 6** Version2.pdf

Hello Lynn,

Attached you will find the updated version.
Please let me know if the "old" CFIS numbers are working for you.

If not let me know.

Best regards.

Sebastian

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, November 10, 2010 1:25 PM
To: Berenz, Sebastian
Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

This sheet indicates that this vehicle is an auto trans. Actually, it is a manual. Please send the shift schedule you'd like us to use.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 11/04/2010 02:21 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1l, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, November 04, 2010 1:13 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** 11/08/10
(Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for
relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include
explicit directions and, if necessary, pictures for:

*disabling traction control, stability control and any load
leveling the vehicle may have*
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to
our contractor, URS, and lab personnel. Paper copies or e-mails sent
directly to URS or lab personnel may result in incorrect information
being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

[attachment "In-Use Parameters Form_N148RXX-0162_ **Ex. 6** .pdf"
deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Fuel Drain
Instructions.pdf" deleted by Lynn Sohacki/AA/USEPA/US]



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Sebastian Berenz VWGoA Date: 11/4/2010

EG&G Representative: _____ Date: _____

EPA Representative: _____ Date: _____

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 11/16/2010 8:35:48 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N149RXX-0059 (2008 VW/Passat) - VIN# **Ex. 6** 0930 vehicle incoming on 11/22/10 (Monday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 11/16/2010 8:37:36 PM
Subject: Reminder: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Have you had a chance to prepare this information? We'll need it soon.

Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 11/16/2010 03:36 PM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
Date: 11/09/2010 08:42 AM
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N002RXX-0133C (2008 Audi/A6) - VIN#	Ex. 6	000 Veh. Pick up on 11/16/10 (Tuesday)
N001RXX-0136C (2008 Audi/A6) - VIN#	Ex. 6	0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 11/16/2010 11:03:53 PM
Subject: FW: In-use vehicles scheduled for next week
[N002RXX-0133C In-Use Parameters Form.pdf](#)
[N001RXX-0136C In-Use Parameters Form.pdf](#)
[requested test procedure confirmatory program V4.pdf](#)

Hello Lynn,

I was all day in Ann Arbor inspecting the first Audi A6 with Marc and Vince.
Tomorrow morning we will be finishing this car and start with the second one.

Attached I send you the data for both cars.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Berenz, Sebastian
Sent: Tuesday, November 09, 2010 10:53 AM
To: 'Sohacki.Lynn@epamail.epa.gov'
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

attached you will find the test parameters for two Audis for next week.
I also attached the procedure which we used for the last Audis.

It would be great if you can send me the test results of N001RXX-0080C when they are available.

Please let me know if you have any questions.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, November 09, 2010 8:42 AM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N002RXX-0133C (2008 Audi/A6) - VIN# **Ex. 6** 1000 Veh. Pick up on 11/16/10 (Tuesday)

N001RXX-0136C (2008 Audi/A6) - **Ex. 6** 0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Date:

EG&G Representative: Date:

EPA Representative: Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

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- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Date:

EG&G Representative: Date:

EPA Representative: Date:

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Rhodes, Brian" [Brian.Rhodes@vw.com]
From: "Berenz, Sebastian"
Sent: Fri 11/19/2010 2:44:23 PM
Subject: RE: In-use vehicles scheduled for next week
In-Use Parameters Form N149RXX-0059 \ Ex. 6 pdf

Hello Lynn,

Sorry for being that late. But attached you will find the parameter sheet for the VW Passat that comes in on Monday next week.

I will not be in the office, but able to read mails or answer my cell phone.

Mr. Brian Rhodes from our group will be in Ann Arbor on Monday to inspect the car. The guys from URS already know about that.

If you have any questions, please let me know.

Best regards

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, November 16, 2010 3:36 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N149RXX-0059 (2008 VW/Passat) - VIN#

Ex. 6

930 vehicle incoming on 11/22/10 (Monday)

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mpH

C Lb-force*mpH²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: Sebastian Berenz VWGoA Date: 11/19/2010

EG&G Representative: _____ Date: _____

EPA Representative: _____ Date: _____

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Hennard, Mike"
Sent: Fri 11/19/2010 9:05:14 PM
Subject: Response to EPA Questions - 2007 Audi Q7 (Survelance Test Program)
[4 2 Engine Family Response to EPA.pdf](#)
mike.hennard@vw.com

Lynn:

Our colleagues at the Audi factory have finalized a reply to your questions that resulted from our July 2010 meeting at the EPA Ann Arbor office. I have attached a PDF file with Audi's written response. Please let me know if you have any comments or questions.

Thanks for your patience.

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America

3800 Hamlin Road

Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207

mike.hennard@vw.com

Engine Family 7ADXT04.2358

VWGoA Response to EPA Questions

Following IUVP testing and EPA surveillance testing of the subject engine family, EPA has asked several questions related to the operation of the fuel system and OBD system of this vehicle.

Ex. 4 - CBI

Ex. 4 - CBI

OBD system:

Ex. 4 - CBI

Response to OBD questions:

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

EVAP Result on VIN:

Ex. 6

Ex. 4 - CBI

Failed test data

EVAPORATIVE EMISSIONS

Started (D@T)	10/29/2009 @ 11:05	Finished (D@T)	10/31/2009 @ 11:05
Start Temp (°F)	72.00	Test Length (hrs)	48
Day 1 Total (gHC)	0.457028	Diurnal (gHC)	1.692560
Day 2 Total (gHC)	1.69256	Hot Soak HC (g)	0.066508
Day 3 Total (gHC)	0	Total Emissions (gHC)	1.759068

During the passed FTP the purge behavior is as designed and the Evap results are comparable with the results during certification (see below) and well below the standards

Passed test data

EVAPORATIVE EMISSIONS

Started (D@T)	11/25/2009 @ 06:29	Finished (D@T)	11/27/2009 @ 06:29
Start Temp (°F)	72.00	Test Length (hrs)	48
Day 1 Total (gHC)	0.379701	Diurnal (gHC)	0.519697
Day 2 Total (gHC)	0.519697	Hot Soak HC (g)	0.034037
Day 3 Total (gHC)	0	Total Emissions (gHC)	0.553734

Cert test data

EVAP Emissions					
Running Loss	[g/mile]			-	0,000
Hot Soak	[g/test]			0,056	0,127
1st day	[g/test]			0,344	0,347
2nd day	[g/test]			0,261	0,262
3rd day	[g/test]			-	0,229
Hot Soak + 24 h diu. highest	[g/test]			0,400	0,474


To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 11/29/2010 4:47:15 PM
Subject: Test data for in-use vehicle
[N148RXXX-0162.pdf](#)


Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

CUSD

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0035-002			Vehicle ID: N148RXX-0162				
	Test Information		Test Date: 11/24/2010		MFR Name: AUDI		
	Key Start / Hot Soak: 09:04:45 / 09:39				MFR Codes: 640 ADX		
	Fuel Container ID: F00023				Config #: 00		
	Fuel Type: 61 Tier 2 Cert Test Fuel				Transmission: MANUAL		
	Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)				Shift Schedule: A06400005		
	Calculation Method: Gasoline				Beginning Odometer: 037488.0 MI		
Pretest Remarks:			Drive Schedule: ftp3bag				
			Soak Period: 20.7 hours				
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	17.814	78.070	2.122	0.866	3.839		
Ambient	3.501	0.000	0.028	0.047	2.069		
Net Concentration	14.542	78.070	2.096	0.822	1.904	12.365	
Remarks:							
Phase 2							
Sample	3.247	9.228	0.451	0.614	2.041		
Ambient	3.238	0.000	0.023	0.047	2.045		
Net Concentration	0.157	9.228	0.429	0.569	0.090	0.054	
Remarks:							
Phase 3							
Sample	3.639	10.295	0.420	0.779	2.326		
Ambient	3.398	0.000	0.021	0.048	2.030		
Net Concentration	0.440	10.295	0.400	0.734	0.414	-0.034	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: This test has particulate results.							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.188	2.043	0.081	338.1	0.029	0.160	26.007
Phase 2	0.003	0.382	0.026	370.3	0.002	0.001	23.970
Phase 3	0.006	0.268	0.015	300.5	0.006	0.000	29.548
Weighted	0.04231	0.69512	0.03477	344.416	0.00872	0.03381	
Fuel Economy							
	Gasoline MPG	Dyno Settings					Dyno #: D329 - FWD
Phase 1	25.98						Inertia: 3625
Phase 2	23.95						EPA Set Co A: 16.37
Phase 3	29.52						EPA Set Co B: -0.1217
							EPA Set Co C: 0.01898
Weighted	25.73						Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data							CVS	
Final Laboratory Test Results								
Test Number: 2011-0035-002				Vehicle ID: N148RXX-0162				
	Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
	Phase 1	0.678	7.344	0.293	1215.6	0.103	0.576	
	Phase 2	0.012	1.475	0.102	1429.2	0.008	0.004	
	Phase 3	0.020	0.965	0.056	1081.3	0.022	0.000	
Test Conditions								
		<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>			
	Barometer (inHg)	29.38	29.38	29.39				
	Avg Cell Temp (degF)	75.36	75.38	74.81				
	Dew Point (degF)	49.01	48.82	49.03				
	Specific Humidity (grains/lbm)	52.56	52.18	52.56				
	NOx Corr Factor	0.9046	0.9031	0.9046				
	CO2 Dilution Factor	15.298	21.771	17.163				
	CFV Vmix (scf @68F)	2801.32	4758.27	2790.87				
	Total Vmix (scf@68F)	2853.32	4846.75	2842.71				
	CVS Flow Rate Avg (scfm)	329.76	328.16	330.61				
	Fan Placement: One Fan - Up - Front							
	Phase Time (secs)	509.70	870.00	506.50				
	Distance (miles)	3.596	3.859	3.599				
	Bag Analysis Time (secs)	879.5	1100.8	121.0				

v101007 - d329EPAVDAEm101124075400

Page 2 of 5

Print Time 24-Nov-2010 13:34

NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2011-0035-002

Vehicle ID: N148RXX-0162

Test Information



Test Date: 11/24/2010
Key Start: 09:04:45 / 09:39
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: MANUAL
Shift Schedule: A06400005
Beginning Odometer: 037488.0 MI
Drive Schedule: ftp3bag
Soak Period: 20.7 hours

All filter weights are corrected for buoyancy.								
Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1	A	47600	139.4600	139.5461	0.08613	18.855	5.244	
	B	47610	146.2990	146.3793	0.08031	17.700	4.923	
	D	47611	145.75887	145.83807	0.07920	17.445	4.852	
Remarks:								
Phase 2	A	47612	143.1921	143.2186	0.02651	5.802	1.503	
	B	47613	142.4165	142.4414	0.02490	5.457	1.414	
	D	47614	144.45863	144.48155	0.02292	5.041	1.306	
Remarks:								
Phase 3	A	47615	141.9768	142.0126	0.03581	7.861	2.185	
	B	47616	141.9050	0.0000	0.00000	0.000	0.000	
	D	47617	143.08760	143.11732	0.02971	6.540	1.817	
Remarks: Exclude C								
Phase 4								
Remarks: This test has particulate results.								

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.08188	18.278	5.083
Phase 2	0.02478	5.629	1.459
Phase 3	0.02184	7.861	2.185

All filter weights are corrected for buoyancy.

Weighted All Filters:

2.41000

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	144.97079	144.97420	0.00341	PASS/FAIL	Inertia: 3625
	2	142.32806	142.32773	-0.00033	PASS	EPA Set Co A: 16.37
					PASS	EPA Set Co B: -0.1217
						EPA Set Co C: 0.01898

Emissions Bench Mexa 7200sle



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2011-0035-002

Vehicle ID: N148RXX-0162

WEIGHING CHAMBER		<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>
	Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp
Pre-test	11/23/10 9:54	1.0011118	022298	71.3	48.4	29.00	NORM @ 11/23/10 04:29:28
Post-test	11/24/10 12:38	1.0011235	022298	71.4	48.7	29.31	NORM @ 11/23/10 04:29:28

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.38	29.38	29.39	
Avg Cell Temp (degF)	75.36	75.38	74.81	
Dew Point (degF)	49.01	48.82	49.03	
Specific Humidity (grains/lbm)	52.56	52.18	52.56	
NOx Corr Factor	0.9046	0.9031	0.9046	
Dilution Factor	15.30	21.77	17.16	
CFV Vmix (scf @68F)	2801.32	4758.27	2790.87	
Sample Volume A (scf @68F)	13.035	22.148	12.948	
Sample Volume B (scf @68F)	12.946	22.117	12.978	
Sample Volume C (scf @68F)	13.068	22.172	13.001	
Sample Volume D (scf @68F)	12.955	22.040	12.916	
Sample Volume Average (scf @68F)	13.001	22.119	12.961	
Total Vmix (scf @68F)	2853.32	4846.75	2842.71	
Phase Time (sec)	509.70	870.00	506.50	
Distance (miles)	3.596	3.859	3.599	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)				
PSU Dil Air B (degC)				
PSU Dil Air C (degC)				
PSU Filter A (degC)	43.4	43.0	42.3	
PSU Filter B (degC)	40.3	39.9	39.2	
PSU Filter C (degC)	37.3	37.2	36.5	
PSU Dil Flow A (lpm)				
PSU Dil Flow B (lpm)				
PSU Dil Flow C (lpm)				
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

C130

NVFEL Laboratory Test Data Final Laboratory Test Results

CVS

Test Number: 2011-0035-003

Vehicle ID: N148RXX-0162

Test Information

Test Date: 11/24/2010

Key Start: 10:22:10

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name: AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: MANUAL

Shift Schedule: A06400006

Beginning Odometer: 037488.0 MI

Drive Schedule: hwfet_hwfet

Bag Data**Phase 1**

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.676	9.416	0.170	1.027	2.073	
Ambient	3.634	0.000	0.022	0.049	2.057	
Net Concentration	0.320	9.416	0.150	0.981	0.175	0.121

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.**Results**

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.002	0.129	0.003	210.7	0.001	0.001	42.149

Fuel Economy**Gasoline MPG**

Phase 1 42.11

Dyno Settings

Dyno #: D329 - FWD

Inertia: 3625

EPA Set Co A: 16.37

EPA Set Co B: -0.1217

EPA Set Co C: 0.01898

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0035-003

Vehicle ID: N148RXX-0162

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.022	1.320	0.031	2160.9	0.014	0.008	1.143

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.39			
Avg Cell Temp (degF)	74.76			
Dew Point (degF)	49.02			
Specific Humidity (grains/lbm)	52.55			
NOx Corr Factor	0.9046			
CO2 Dilution Factor	13.037			
CFV Vmix (scf @68F)	4173.11			
Total Vmix (scf@68F)	4251.46			
CVS Flow Rate Avg (scfm)	327.26			

Fan Placement: One Fan - Up - Front
Phase Time (secs) 765.10
Distance (miles) 10.254
Bag Analysis Time (secs) 105.2

NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Information



Test Number: 2011-0035-003
Test Date: 11/24/2010
Key Start: 10:22:10
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 03 HWFET (hwfetestprep_hwfet)
Calculation Method: Gasoline
Pretest Remarks:

Vehicle ID: N148RXX-0162
MFR Name: AUDI
MFR Codes: 640 ADX
Config #: 00
Transmission: MANUAL
Shift Schedule: A06400006
Beginning Odometer: 037488.0 MI
Drive Schedule: hwfet_hwfet

All filter weights are corrected for buoyancy.								
Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / ml	Filter comment
Phase 1	A	47618	143.1964	143.2414	0.04496	9.736	0.949	
	B	47619	141.3449	141.3901	0.04524	9.836	0.959	
	D	47620	142.35569	142.40124	0.04555	9.924	0.968	
	Remarks:							

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / ml
Phase 1	0.04525	9.786	0.954

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
0.01	1	144.97079	144.97653	0.00574	PASS/FAIL	Inertia: 3625
	2	142.32806	142.32906	0.00100	PASS	EPA Set Co A: 16.37
					PASS	EPA Set Co B: -0.1217
						EPA Set Co C: 0.01898



NVFEL Laboratory Test Data
Final Laboratory Test Results

PARTICULATE

Test Number: 2011-0035-003

Vehicle ID: N148RXX-0162

WEIGHING CHAMBER		Buoyancy	Operator	Chamber Temp	Dew Point	Barometer	Last Change in Status
	Timestamp	Factor	(id)	(°F)	(°F)	(°Hg)	Status @ timestamp
Pre-test	11/23/10 9:54	1.0011118	022298	71.3	48.4	29.00	NORM @ 11/23/10 04:29:28
Post-test	11/24/10 13:15	1.0011237	022298	71.3	49	29.31	NORM @ 11/23/10 04:29:28

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.39			
Avg Cell Temp (degF)	74.76			
Dew Point (degF)	49.02			
Specific Humidity (grains/lbm)	52.55			
NOx Corr Factor	0.9046			
Dilution Factor	13.04			
CFV Vmix (scf @68F)	4173.11			
Sample Volume A (scf @68F)	19.634			
Sample Volume B (scf @68F)	19.554			
Sample Volume C (scf @68F)	19.644			
Sample Volume D (scf @68F)	19.514			
Sample Volume Average (scf @68F)	19.587			
Total Vmix (scf @68F)	4251.46			
Phase Time (sec)	765.10			
Distance (miles)	10.254			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)				
PSU Dil Air B (degC)				
PSU Dil Air C (degC)				
PSU Filter A (degC)	43.5			
PSU Filter B (degC)	40.5			
PSU Filter C (degC)	37.8			
PSU Dil Flow A (lpm)				
PSU Dil Flow B (lpm)				
PSU Dil Flow C (lpm)				
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 12/3/2010 7:36:50 PM
Subject: I got an updated schedule...

Hi, Sebastian.

We are done with the N148 vehicles. If we do decide to bring more in it won't be until February.

The next confirmatory vehicle is not scheduled to come in until the week of January 10.

I will send an e-mail to you the week before we plan to bring the vehicle in and let you know the VIN and maintenance date.

Enjoy your trip!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 12/3/2010 9:02:04 PM
Subject: RE: I got an updated schedule...

Hello Lynn,

Thank you very much for that update.
It helps to plan.

Have a nice weekend.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, December 03, 2010 2:37 PM
To: Berenz, Sebastian
Subject: I got an updated schedule...

Hi, Sebastian.

We are done with the N148 vehicles. If we do decide to bring more in it won't be until February.

The next confirmatory vehicle is not scheduled to come in until the week

of January 10.

I will send an e-mail to you the week before we plan to bring the vehicle in and let you know the VIN and maintenance date.

Enjoy your trip!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 12/6/2010 4:08:04 PM
Subject: Test data for in-use vehicle N149-0059
[N149RXX-0059.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0045-002

Vehicle ID: N149RXX-0059

Test Information



Test Date: 12/2/2010

MFR Name: AUDI

Key Start / Hot Soak: 09:56:52 / 09:46

MFR Codes: 640

ADX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp

Shift Schedule: A09980005

Calculation Method: Gasoline

Beginning Odometer: 051113.0 MI

Pretest Remarks:

Drive Schedule: ftp3bag

Soak Period: 21.1 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	14.404	41.970	1.692	0.871	3.233	
Ambient	3.473	0.000	0.006	0.049	2.066	
Net Concentration	11.158	41.970	1.686	0.825	1.303	9.725

Remarks:

Phase 2

Sample	3.507	5.777	0.214	0.549	2.011	
Ambient	3.351	0.004	0.010	0.048	2.032	
Net Concentration	0.294	5.772	0.204	0.503	0.063	0.225

Remarks:

Phase 3

Sample	3.602	8.700	0.235	0.747	2.234	
Ambient	3.252	0.044	0.013	0.048	2.030	
Net Concentration	0.532	8.658	0.223	0.701	0.318	0.182

Remarks:

Phase 4

Sample	
Ambient	
Net Concentration	

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.164	1.247	0.073	385.3	0.022	0.143	22.926
Phase 2	0.007	0.274	0.014	375.4	0.002	0.005	23.658
Phase 3	0.008	0.257	0.010	327.0	0.005	0.003	27.152
Weighted	0.03981	0.47146	0.02518	364.148	0.00697	0.03318	

Fuel Economy

Gasoline MPG

Phase 1	22.90
Phase 2	23.64
Phase 3	27.12
Weighted	24.34

Dyno Settings

Dyno #: D002

Inertia: 3875

EPA Set Co A: 9.18

EPA Set Co B: 0.27

EPA Set Co C: 0.01586

Emiss-Bench: D002

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0045-002

Vehicle ID: N149RXX-0059

Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.1
Phase 1	0.593	4.501	0.264	1390.5	0.080	0.517	
Phase 2	0.027	1.061	0.055	1452.5	0.007	0.020	
Phase 3	0.028	0.926	0.035	1178.0	0.019	0.010	



Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.13	29.13	29.13	
Avg Cell Temp (degF)	75.06	75.10	75.15	
Dew Point (degF)	46.65	46.88	46.59	
Specific Humidity (grains/lbm)	48.45	48.87	48.33	
NOx Corr Factor	0.8891	0.8906	0.8886	
CO2 Dilution Factor	15.292	24.367	17.913	
CFV Vmix (scf @68F)	3253.10	5576.86	3242.68	
CVS Flow Rate Avg (scfm)	385.13	384.08	384.05	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.80	871.20	506.60	
Distance (miles)	3.608	3.870	3.602	
Bag Analysis Time (secs)	75.0	75.6	74.1	

CISD
CVS

CVS

Vehicle ID: N149RXX-0059

MFR Name AUDI

MFR Codes: 640

ADX

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 051124.0 MI

Drive Schedule: hwfet hwfet



NonMeth HC

(ppmC)

2.084

2.038

0.199

Remarks:

Ambient

Net Concentration

Remarks:

Sample

Ambient

Net Concentration

Remarks:

Sample

Ambient

Net Concentration

Remarks:

Vol MPG

38.040

Dyno #: D002

38.00

Inertia: 3875

Set Co A: 9.18

EPA Set Co B: 0.27

EPA Set Co C: 0.01586

Emiss-Bench: D002

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0045-003

Vehicle ID: N149RXX-0059

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.052	2.270	0.078	2394.1	0.018	0.035	1.1

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.10			
Avg Cell Temp (degF)	75.11			
Dew Point (degF)	46.61			
Specific Humidity (grains/lbm)	48.42			
NOx Corr Factor	0.8889			
CO2 Dilution Factor	13.376			
CFV Vmix (scf @68F)	4837.02			

CVS Flow Rate Avg (scfm) 379.37

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.00
Distance (miles)	10.259
Bag Analysis Time (secs)	74.0

To: richard.thomas@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 12/9/2010 4:01:47 PM
Subject: Fees URL

Hi, Richard.

Here it is:

<http://www.epa.gov/otaq/guidance.htm>

Please let me know if you have any trouble locating the forms.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 12/14/2010 9:27:28 AM
Subject: Confirmatory Program 3.1I Audi
sebastian.berenz@vw.com

Hello Lynn,

I hope everything is fine in Michigan. I'm still in Germany and heard of the blizzard.

Can you please give me an update on EPA's decision on our 3.1I confirmatory program?

It would be kind, if you can send me the last two test results of the Audi A6es.

Thank you very much.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 12/14/2010 7:05:44 PM
Subject: Re: Confirmatory Program 3.1I Audi
[N002RXX-0133C hwy.pdf](#)
[N001RXX-0136C ftp.pdf](#)
[N001RXX-0136C hwy.pdf](#)
[N002RXX-0133C ftp.pdf](#)
sebastian.berenz@vw.com

Hi, Sebastian.

We have decided to suspend testing for now on this class but we do have some questions that we will be sending to you. Unfortunately, it is very busy right now so I'm not sure when we will be getting the questions to you.

Here is the data you requested.

I hope it's warmer there than it is here!

Regards.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 12/14/2010 04:28 AM
Subject: Confirmatory Program 3.1I Audi

Hello Lynn,

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Can you please give me an update on EPA's decision on our 3.1I confirmatory program?
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P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

0150

NVFEL Laboratory Test Data							CVS	
Final Laboratory Test Results								
		Test Number: 2011-0039-003 Test Date: 12/2/2010 Key Start: 10:20:02 Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfetprep_hwfet) Calculation Method: Gasoline Pretest Remarks:			Vehicle ID: N002RXX-0133C MFR Name: AUDI MFR Codes: 640 ADX Config #: 00 Transmission: AUTO Shift Schedule: A09980011 Beginning Odometer: 053028.0 MI Drive Schedule: hwfet_hwfet			
Test Information								
Bag Data								
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1								
	Sample	3.885	50.984	0.378	1.290	2.146		
	Ambient	2.569	0.000	0.017	0.045	1.963		
	Net Concentration	1.564	50.984	0.362	1.250	0.373	1.137	
Remarks:								
Phase 2								
	Sample							
	Ambient							
	Net Concentration							
Remarks:								
Phase 3								
	Sample							
	Ambient							
	Net Concentration							
Remarks:								
Phase 4								
	Sample							
	Ambient							
	Net Concentration							
Remarks:								
Results								
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.010	0.681	0.007	262.2	0.003	0.008	33.771
Fuel Economy								
		<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
	Phase 1	33.74	Dyno #: D329 - AWD Inertia: 4250 EPA Set Co A: 6.04 EPA Set Co B: 0.2166 EPA Set Co C: 0.01666					
Emiss-Bench: Mexa 7200sle								

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0039-003

Vehicle ID: N002RXX-0133C

Results




	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.106	6.973	0.074	2686.2	0.029	0.077	1.143

Test Conditions


	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.14			
Avg Cell Temp (degF)	74.77			
Dew Point (degF)	48.80			
Specific Humidity (grains/lbm)	52.56			
NOx Corr Factor	0.9046			
CO2 Dilution Factor	10.341			
CFV Vmix (scf @68F)	4148.04			
CVS Flow Rate Avg (scfm)	325.34			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.00			
Distance (miles)	10.246			
Bag Analysis Time (secs)	104.9			

C15D

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0040-002		Vehicle ID: N001RXX-0136C					
Test Date: 12/3/2010		MFR Name: AUDI					
Key Start / Hot Soak: 08:15:01 / 09:48		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 019286.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 18.6 hours					
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	17.492	55.441	2.501	1.132	3.448		
Ambient	2.616	0.000	0.019	0.042	1.929		
Net Concentration	15.098	55.441	2.484	1.094	1.683	13.174	
Remarks:							
Phase 2							
Sample	2.473	9.935	0.029	0.724	1.840		
Ambient	2.557	0.000	0.018	0.042	1.914		
Net Concentration	0.054	9.935	0.013	0.684	0.030	0.020	
Remarks:							
Phase 3							
Sample	2.966	13.900	0.183	0.953	2.017		
Ambient	2.534	0.000	0.013	0.042	1.908		
Net Concentration	0.613	13.900	0.171	0.914	0.245	0.334	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.191	1.413	0.094	438.3	0.025	0.166	20.154
Phase 2	0.001	0.403	0.001	436.0	0.001	0.000	20.364
Phase 3	0.008	0.354	0.006	366.3	0.004	0.004	24.234
Weighted	0.04220	0.59895	0.02172	417.310	0.00643	0.03585	
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	20.13	Dyno #: D329 - AWD					
Phase 2	20.34	Inertia: 4250					
Phase 3	24.21	EPA Set Co A: 3.54					
		EPA Set Co B: 0.228					
		EPA Set Co C: 0.01696					
Weighted	21.25	Emiss-Bench: Mexa 7200sle					

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0040-002				Vehicle ID: N001RXX-0136C			
Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
Phase 1	0.683	5.066	0.338	1571.4	0.088	0.596	
Phase 2	0.004	1.551	0.003	1679.2	0.003	0.002	
Phase 3	0.028	1.272	0.023	1314.8	0.013	0.015	
Test Conditions		Phase 1	Phase 2	Phase 3	Phase 4		
Barometer (inHg)		29.19	29.19	29.20			
Avg Cell Temp (degF)		75.65	74.86	74.81			
Dew Point (degF)		49.09	49.13	49.02			
Specific Humidity (grains/lbm)		53.05	53.12	52.90			
NOx Corr Factor		0.9065	0.9068	0.9059			
CO2 Dilution Factor		11.758	18.478	14.032			
CFV Vmix (scf @68F)		2771.37	4736.37	2776.39			
CVS Flow Rate Avg (scfm)		327.91	326.72	329.02			
Fan Placement: One Fan - Up - Front							
Phase Time (secs)		507.10	869.80	506.30			
Distance (miles)		3.585	3.852	3.589			
Bag Analysis Time (secs)		879.3	1109.4	120.6			

CISD

NVFEL Laboratory Test Data							CVS	
Final Laboratory Test Results								
		Test Number: 2011-0040-003 Test Date: 12/3/2010 Key Start: 09:44:53 Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfelprep_hwfet) Calculation Method: Gasoline Pretest Remarks:			Vehicle ID: N001RXX-0136C MFR Name: AUDI MFR Codes: 640 Config #: 00 Transmission: AUTO Shift Schedule: A09980011 Beginning Odometer: 019297.0 MI Drive Schedule: hwfet_hwfet			
Test Information								
Bag Data								
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1								
	Sample	3.368	38.843	0.636	1.277	1.987		
	Ambient	2.480	0.000	0.006	0.041	1.899		
	Net Concentration	1.125	38.843	0.630	1.240	0.270	0.816	
	Remarks:							
Phase 2								
	Sample							
	Ambient							
	Net Concentration							
	Remarks:							
Phase 3								
	Sample							
	Ambient							
	Net Concentration							
	Remarks:							
Phase 4								
	Sample							
	Ambient							
	Net Concentration							
	Remarks:							
Results								
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.007	0.520	0.013	260.5	0.002	0.005	34.015
Fuel Economy								
		<u>Gasoline MPG</u>	<u>Dyno Settings</u>					<u>Dyno #:</u> D329 - AWD
	Phase 1	33.98						Inertia: 4250
							EPA Set Co A: 3.54	
							EPA Set Co B: 0.228	
							EPA Set Co C: 0.01696	
							Emiss-Bench: Mexa 7200sle	
v101007 - d329		EPAVDAEm101203090426		Page 1 of 2		Print Time 03-Dec-2010 10:27		

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0040-003

Vehicle ID: N001RXX-0136C

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.076	5.323	0.128	2669.4	0.021	0.055	1.143

Test Conditions


	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.21			
Avg Cell Temp (degF)	75.04			
Dew Point (degF)	48.67			
Specific Humidity (grains/lbm)	52.19			
NOx Corr Factor	0.9032			
CO2 Dilution Factor	10.459			
CFV Vmix (scf @68F)	4156.16			

CVS Flow Rate Avg (scfm) 325.93

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.10
Distance (miles)	10.245
Bag Analysis Time (secs)	104.8

0150

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0039-002		Vehicle ID: N002RXX-0133C					
Test Date: 12/2/2010		MFR Name: AUDI					
Key Start / Hot Soak: 09:02:34 / 09:45		MFR Codes: 640 ADX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 053017.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 25.3 hours					
Test Information							
							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	24.593	80.808	2.330	1.119	4.137		
Ambient	2.649	0.000	0.022	0.044	1.974		
Net Concentration	22.168	80.808	2.310	1.079	2.329	19.505	
Remarks:							
Phase 2							
Sample	2.746	11.295	0.022	0.712	1.919		
Ambient	2.596	0.000	0.019	0.044	1.966		
Net Concentration	0.288	11.295	0.003	0.670	0.058	0.222	
Remarks:							
Phase 3							
Sample	5.650	26.425	0.330	0.919	2.277		
Ambient	2.532	0.000	0.021	0.044	1.972		
Net Concentration	3.292	26.425	0.310	0.878	0.441	2.788	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.279	2.054	0.087	431.0	0.034	0.246	20.435
Phase 2	0.006	0.459	0.000	427.5	0.001	0.004	20.761
Phase 3	0.042	0.673	0.012	351.4	0.006	0.035	25.217
Weighted	0.07242	0.84914	0.02150	407.259	0.00952	0.06302	
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					
Phase 1	20.41	Dyno #: D329 - AWD					
Phase 2	20.74	Inertia: 4250					
Phase 3	25.19	EPA Set Co A: 6.04					
		EPA Set Co B: 0.2166					
		EPA Set Co C: 0.01666					
Weighted	21.74	Emiss-Bench: Mexa 7200sle					
<div style="display: flex; justify-content: space-between;"> v101007 - d329 EPAVDAEm101202084123 Page 1 of 2 Print Time 02-Dec-2010 09:58 </div>							

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0039-002				Vehicle ID: N002RXX-0133C			
Results	HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
Phase 1	1.000	7.358	0.313	1543.6	0.122	0.880	
Phase 2	0.022	1.758	0.001	1638.9	0.005	0.017	
Phase 3	0.149	2.417	0.042	1261.9	0.023	0.126	
Test Conditions		Phase 1	Phase 2	Phase 3	Phase 4		
Barometer (inHg)		29.12	29.12	29.13			
Avg Cell Temp (degF)		74.86	74.87	74.84			
Dew Point (degF)		49.05	49.11	48.91			
Specific Humidity (grains/lbm)		53.09	53.22	52.79			
NOx Corr Factor		0.9066	0.9071	0.9055			
CO2 Dilution Factor		11.858	18.782	14.528			
CFV Vmix (scf @68F)		2761.70	4719.78	2774.55			
CVS Flow Rate Avg (scfm)		326.57	325.73	328.16			
Fan Placement: One Fan - Up - Front							
Phase Time (secs)		507.40	869.39	507.30			
Distance (miles)		3.582	3.833	3.591			
Bag Analysis Time (secs)		878.9	1108.1	120.6			

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 12/16/2010 2:25:14 PM
Subject: Some questions on the N001/N002 class

Hi, Sebastian.

I mentioned in my last e-mail that we were suspending confirmatory testing at this time and wanted to focus on how the change in fueling affected the emissions. Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

We would like an explanation of this fuel feature. When is it active? What triggers it? What does the feature affect or adjust? What are the inputs and outputs? What do you call this feature? The answers to these questions will help us assess the results of the surveillance and confirmatory tests.

Please try to get the answers to us by the first week in January. However, if that is not possible, please let me know when you expect to get the answers to us.

Thanks you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 12/17/2010 8:36:09 AM
Subject: RE: Some questions on the N001/N002 class

Hello Lynn,

Thank you for keeping me updated.

I have received you questions concerning our 3.1l confirmatory programs.
We are now working to get the answers to you.

The problem is, that our factory is shut down till January, 10th and most of the people are already on vacation.

My colleges will start working on the questions as soon as everybody is back in the office.
So I hope it is sufficient for you, that you will get the answers during the first half of January.

I will be back in Michigan at January 3rd and try to get everything done as soon as possible.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, December 16, 2010 9:25 AM
To: Berenz, Sebastian
Cc: Ball.Joel@epamail.epa.gov; Snyder.Jim@epamail.epa.gov; Anderson.Tom@epamail.epa.gov

Subject: Some questions on the N001/N002 class

Hi, Sebastian.

I mentioned in my last e-mail that we were suspending confirmatory testing at this time and wanted to focus on how the change in fueling affected the emissions. Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

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Thanks you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 12/17/2010 2:02:30 PM
Subject: RE: Some questions on the N001/N002 class

Thanks, Sebastian.

I understand that there may be a delay because of vacations. That's fine. We'll look for the answers in January.

Enjoy the holidays!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 12/17/2010 03:36 AM
Subject: RE: Some questions on the N001/N002 class

Hello Lynn,

Thank you for keeping me updated.

I have received you questions concerning our 3.1I confirmatory programs.
We are now working to get the answers to you.

The problem is, that our factory is shut down till January, 10th and most of the people are already on vacation.

My colleges will start working on the questions as soon as everybody is back in the office.
So I hope it is sufficient for you, that you will get the answers during the first half of January.

I will be back in Michigan at January 3rd and try to get everything done as soon as possible.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, December 16, 2010 9:25 AM
To: Berenz, Sebastian
Cc: Ball.Joel@epamail.epa.gov; Snyder.Jim@epamail.epa.gov; Anderson.Tom@epamail.epa.gov
Subject: Some questions on the N001/N002 class

Hi, Sebastian.

I mentioned in my last e-mail that we were suspending confirmatory testing at this time and wanted to focus on how the change in fueling affected the emissions. Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

We would like an explanation of this fuel feature. When is it active? What triggers it? What does the feature affect or adjust? What are the inputs and outputs? What do you call this feature? The answers to these questions will help us assess the results of the surveillance and confirmatory tests.

Please try to get the answers to us by the first week in January. However, if that is not possible, please let me know when you expect to get the answers to us.

Thanks you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 1/13/2011 5:11:02 PM
Subject: RE: Some questions on the N001/N002 class
Start fuel quality adaptation_Engine Family 8AD XV04.pdf

<<Start fuel quality adaptation_Engine Family 8AD XV04.pdf>> Hello Lynn,

I hope you had some nice holidays and vacation days.

Attached you will find a pdf sheet with all the answers to your questions our specialists set up concerning the 3.1l Audi confirmatory program.

Please let me know if there is anything left to discuss or something unclear.
I will try to get additional information if needed. Just let me know.

Best regards and a happy new year.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
2930 Technology Drive
Rochester Hills, MI 48309
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, December 17, 2010 9:03 AM
To: Berenz, Sebastian
Cc: Snyder.Jim@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Mitcham.Arvon@epamail.epa.gov;
Anderson.Tom@epamail.epa.gov
Subject: RE: Some questions on the N001/N002 class

Thanks, Sebastian.

I understand that there may be a delay because of vacations. That's fine. We'll look for the answers in January.

Enjoy the holidays!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 12/17/2010 03:36 AM

Subject: RE: Some questions on the N001/N002 class

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So I hope it is sufficient for you, that you will get the answers during the first half of January.

I will be back in Michigan at January 3rd and try to get everything done as soon as possible.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

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Auburn Hills, MI 48326

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FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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Sent: Thursday, December 16, 2010 9:25 AM

To: Berenz, Sebastian

Cc: Ball.Joel@epamail.epa.gov; Snyder.Jim@epamail.epa.gov;

Anderson.Tom@epamail.epa.gov

Subject: Some questions on the N001/N002 class

Hi, Sebastian.

I mentioned in my last e-mail that we were suspending confirmatory testing at this time and wanted to focus on how the change in fueling affected the emissions. Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

We would like an explanation of this fuel feature. When is it active? What triggers it? What does the feature affect or adjust? What are the inputs and outputs? What do you call this feature? The answers to these questions will help us assess the results of the surveillance and confirmatory tests.

Please try to get the answers to us by the first week in January. However, if that is not possible, please let me know when you expect to get the answers to us.

Thanks you!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

Engine Family 8ADXV03.174

EPA Questions Dec. 16th, 2010

Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

We would like an explanation of this fuel feature.

When is it active?

What triggers it?

What does the feature affect or adjust?

What are the inputs and outputs?

What do you call this feature?

VWGoA Response to EPA Questions

Background information:

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 3/2/2011 8:19:53 PM
Subject: Notification of a new in-use surveillance test class
[NOTIF-P-120-Volkswagen.doc](#)

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

March 2, 2011

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Mr. Reineke,

The Environmental Protection Agency will test a 2005 model-year Volkswagen test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of two or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

One vehicle may be subjected to evaporative testing and a US06 is usually run per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	5VWXT03.2225
<u><i>Estimated Start Date</i></u>	Week-ending April 8, 2011
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214-4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	P120/P121 (low-mileage / high-mileage)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 3/2/2011 8:25:49 PM
Subject: Notification of a new in-use surveillance test class P120
[NOTIF-P-120-Volkswagen.pdf](#)

Hi, Sebastian.

Here is a .pdf copy of the signed letter.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/02/2011 03:24 PM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
Date: 03/02/2011 03:19 PM
Subject: Notification of a new in-use surveillance test class

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

March 2, 2011

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.
Auburn Hills, Michigan 48326

OFFICE OF
AIR AND RADIATION

Dear Mr. Reineke:

The Environmental Protection Agency will test a 2005 model-year Volkswagen test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of two or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

One vehicle may be subjected to evaporative testing and a US06 is usually run per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lynn Sohacki", is positioned above the typed name.

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u>	NVFEL Ann Arbor, Michigan
<u>Test Group</u>	5VWXT03.2225
<u>Estimated Start Date</u>	Week-ending April 8, 2011
<u>Recall/Testing Representative</u>	Lynn Sohacki
<u>Telephone Number</u>	(734) 214-4851
<u>E-mail address</u>	Sohacki.lynn@epa.gov
<u>Class Numbers</u>	P120/P121 (low-mileage / high-mileage)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 3/7/2011 2:30:27 PM
Subject: RE: Notification of a new in-use surveillance test class P120

Hello Lynn,

Thank you very much for the information about the surveillance program.

Please let me know when the first car comes in. I would like to be at your lab when the car will be inspected.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, March 02, 2011 3:26 PM
To: Berenz, Sebastian
Subject: Notification of a new in-use surveillance test class P120

Hi, Sebastian.

Here is a .pdf copy of the signed letter.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: NOTIF-P-120-Volkswagen.pdf)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/02/2011 03:24 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 03/02/2011 03:19 PM

Subject: Notification of a new in-use surveillance test class

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 3/23/2011 1:24:39 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0014 (2005 VW/Touareg) - VIN# Ex. 6 0830 vehicle pick up on 3/24/11
(Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

- vehicle target road-load coefficients
- fuel tank capacity
- 40% tank capacity
- tire pressure
- applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 3/29/2011 1:44:27 PM
Subject: In-use vehicles P121RXX-0014 (2005 VW/Touareg)
[In-Use Parameters Form P121RXX-0014.pdf](#)
[Touareg MY05 fuel drain.pdf](#)
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hello Lynn,

hello Bernd,

attached you will find the parameters for the Touareg.

I also attached the fuel drain procedure.

As soon as I have feedback from Germany I will provide a procedure for adapting the Touareg after parts change and fault erase.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

To: Lynn Sohacki/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 3/30/2011 2:05:05 PM
Subject: In-use vehicles P121RXX-0014 (2005 VW/Touareg)
[In-Use Parameters Form P121RXX-0014 V2.pdf](#)
[Touareg adaptation procedure surveillance.pdf](#)
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hello Lynn,

hello Bernd,

Attached you will find the updated parameter sheet for In-use vehicle P121RXX-0014 (2005 VW Touareg).

I added the set coefficients for you.

<<In-Use Parameters Form_P121RXX-0014_V2.pdf>>

I also have attached our proposal for a procedure to adapt the car after the fault code erase.

<<Touareg adaptation procedure surveillance.pdf>>

If possible we would like to assist during the procedure.

Another open point was the tires on the vehicle. VW has no concerns about the tires for emissions tests only, as far as EPA has no safety concerns about off road tires on dynos.

The tires are within the specs for that car, but were not used for certification and fuel economy tests.

In this case the tires on the vehicle are alright for an in-use test.

Please let me know if you have any questions.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
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Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

Drive on street



In general:

This procedure will adapt the test vehicle after erasing fault memory. After the procedure it needs to be checked if any other pending faults are stored.

*** should contain:**

- Stop and go
- No kickdown

To: Lynn Sohacki/AA/USEPA/US@EPA;Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 3/31/2011 1:59:33 AM
Subject: FW: In-use vehicles P121RXX-0014 (2005 VW/Touareg)
[IUVP_MY05_Touareg_3.2_28.03.11_09.23_checkin.txt](#)
[7LX5D029769_30.03.11_13.12.txt](#)
[7LX5D029769_30.03.11_13.14.txt](#)
[7LX5D029769_30.03.11_14.48.txt](#)
[In-Use Parameters Form P121RXX-0014 V2.pdf](#)
[Touareg adaptation procedure surveillance.pdf](#)
sebastian.berenz@vw.com
<http://www.volkswagen.com>
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hello Lynn,

Hello Bernd,

Attached you will find the printouts from our scan tool. Just for your records.

First check on 03/28/2011:

<<IUVP_MY05_Touareg_3.2_28.03.11_09.23_checkin.txt>> _____

Readout before fault erase 03/30/2011:

<<7LX5D029769_30.03.11_13.12.txt>>

After fault erase 03/30/2011:

<<7LX5D029769_30.03.11_13.14.txt>>

After test run for adaption the car 03/30/2011:

<<7LX5D029769_30.03.11_14.48.txt>>

As you can see we still have a catalyst error.

Please let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Wednesday, March 30, 2011 10:05 AM
To:
Subject: In-use vehicles P121RXX-0014 (2005 VW/Touareg)

Hello Lynn,

hello Bernd,

Attached you will find the updated parameter sheet for In-use vehicle P121RXX-0014 (2005 VW Touareg).

I added the set coefficients for you.

<<In-Use Parameters Form_P121RXX-0014_V2.pdf>>

I also have attached our proposal for a procedure to adapt the car after the fault code erase.

<<Touareg adaptation procedure surveillance.pdf>>

If possible we would like to assist during the procedure.

Another open point was the tires on the vehicle. VW has no concerns about the tires for emissions tests only, as far as EPA has no safety concerns about off road tires on dynos.

The tires are within the specs for that car, but were not used for certification and fuel economy tests.

In this case the tires on the vehicle are alright for an in-use test.

Please let me know if you have any questions.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

DiagRA D Version 4.5.29.508 Copyright by RA Consulting GmbH

Registered for Brian Rhodes

Date: 3/28/2011 9:23:21 AM

Measurement file: C:\Documents and Settings\rhodesb\Desktop\Touareg_EPA (2005).dra

Vehicle

EPA Touareg 2005

Acquisition worker: Brian Rhodes

Location: Rochester Hills, MI

Department: EEO

ECU

01 7E0 7E8 Engine electronics

Diagnostic data set: VAG\default-

ECU identification

Part number: 022906032FT
Configuration: 6388 programmable
System name: MOTRONIC ME7.1.1G
Coding: 00133
Device number: 00000
Importer number: 000
Company number: 31414

Serial number: VWZ3Z0D5246838
Manufacturer plant: 000-000
Manufacturing date: 11.08.04
Revision state: 00000000
Test bench number: 0000
Manufacturer number: 0672
Diagnosis software number: P0000
Partial software: c24g70
Status of Flash: 0000 0000 0 0 0000 0000
Vehicle ident number:

Ex. 6

Fault code memory

5 fault code entries

16497 P0113 Intake Air Temp.Circ. High Input
0010 0010 lower limit exceeded
conditions met
sporadic

Warning lamp off

16804 P0420 Catalyst System,Bank1 Efficiency Below Threshold
0010 0001 upper limit exceeded
conditions met
sporadic
Warning lamp off

16814 P0430 Catalyst System, Bank2 Efficiency Below Threshold
0010 0001 upper limit exceeded
conditions met
sporadic
Warning lamp off

17831 P1423 Bank1, secondary air system Flow too Low
1110 0010 lower limit exceeded
conditions met
static
Warning lamp on

17819 P1411 Bank2, secondary air system Flow too Low
1110 0010 lower limit exceeded
conditions met
static
Warning lamp on

Measured values

1	0 U/min	27.0 °C	0.0 %	0.0 %
2	0 U/min	100.0 %	0.0 ms	0.0 g/s
3	0 U/min	0.0 g/s	8.2 %	0.0 °v.OT
4	0 U/min	11.620 V	27.0 °C	27.0 °C
5	0 U/min	100.0 %	0 km/h	Idling
6	0 U/min	100.0 %	27.0 °C	-3.1 %
7				
8	not operated	Pump OFF	680 mbar	Test OFF
9				
10	0 U/min	100.0 %	8.2 %	0.0 °v.OT
11	0 U/min	27.0 °C	27.0 °C	0.0 °v.OT
12				
13				
14	0 U/min	100.0 %	0	blocked
15	0	0	0	blocked
16	0	0	0	blocked
17				
18	0 U/min	0 U/min	0.0 %	0.0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	100.0 %	0.00 KW	0.00 KW
23	0 U/min	100.0 %	0.00 KW	0.00 KW
24	0 U/min	100.0 %	0.00 KW	0.00 KW
25				
26	3.861 V	3.861 V	3.861 V	3.861 V

27	3.861 V	3.861 V		
28	0 U/min	100.0 %	27.0 °C	Test OFF
29				
30	0 0000	0000	0 0000	0000
31	1.00	0.81	1.00	0.81
32	0.0 %	1.6 %	0.0 %	3.1 %
33	0.0 %	1.520 V	0.0 %	1.540 V
34	0 U/min	0.0 °C	1.86	Test OFF
35	0 U/min	0.0 °C	1.84	Test OFF
36	0.435 V	Test OFF	0.435 V	Test OFF
37	100.0 %	0.435 V	-0.004	Test OFF
38	100.0 %	0.435 V	-0.008	Test OFF
39	0.0 g/s	0.435 V	0.435 V	Test OFF
40				
41	502 Ohm	0.0 %		Htg.aC.OFF
42	502 Ohm	0.0 %		Htg.aC.OFF
43	0 U/min	0.0 °C	0.435 V	Test OFF
44	0 U/min	0.0 °C	0.435 V	Test OFF
45				
46	0 U/min	0.0 °C	0.20	Test OFF
47	0 U/min	0.0 °C	0.38	Test OFF
48				
49				
50	0 U/min	950 U/min	A/C Low	Compr. OFF
51	0 U/min	950 U/min	0	11.620 V
52	0 U/min	950 U/min	A/C Low	
53	0 U/min	950 U/min	11.620 V	0.0 %
54	0 U/min	Idling	14 %	8.2 %
55	0 U/min	0.0 %	-2.9 %	00 0000
56	0 U/min	950 U/min	0.0 %	00 0000
57	0 U/min	950 U/min	Compr. OFF	5 bar
58	0 U/min	100.0 %		
59				
60	17 %	83 %	0	ADP is OK
61	0 U/min	11.620 V	8.2 %	00 0000
62	17 %	83 %	14 %	7 %
63	14 %	79 %		ADP is OK
64	0.540 V	4.580 V	0.880 V	4.220 V
65				
66	0 km/h	0010 1000	0 km/h	0000 0000
67				
68				
69				
70	0.0 %	0.0 %		Test OFF
71	Reed closed	Cancel		Test OFF
72	Reed closed	Cancel		Test OFF
73	0.0 %	0.0 %	0.0 %	0.0 %
74				
75				
76				
77	0 U/min	0.0 g/s	0.0 %	Test OFF
78	0 U/min	0.0 g/s	0.0 %	Test OFF
79				
80	000-000 11.08.04 00000000 0000 0672			
81	VWVGZG77LX5D029769 VWZ3Z0D5246838 <>			
82	00000000000000 <> <> <>			

83				
84				
85				
86	0000 0000	1111 1111	0110 1011	0000 1011
87	0000 0000	0000 0000	0110 0000	0000 0000
88	1111 1010	1110 1101	1100 1100	
89	943	too low		
90	0 U/min	20.0 %	0.00 KW	0.00 KW
91	0 U/min	20.0 %	0.00 KW	0.00 KW
92				
93	0 U/min	100.0 %	-4.00 KW	-6.00 KW
94	0.00 KW		Test OFF	
95	0 U/min	100.0 %	27.0 °C	IMC-V OFF
96	0.00 KW		Test OFF	
97				
98				
99	0 U/min	1.00	1.00	I-Reg.OFF
100	0000 0000	27.0 °C	0 s	1001 0000
101	0 U/min	100.0 %	0.0 ms	0.0 g/s
102	0 U/min	27.0 °C	27.0 °C	0.0 ms
103				
104	27.0 °C	0.0 %	0.0 %	0.0 %
105	0 U/min	100.0 %	27.0 °C	off
106				
107	0 U/min	0.0 %	0.0 %	Test OFF
108				
109				
110	0 U/min	27.0 °C	0.0 ms	8.2 %
111				
112	0.0 °C		0.0 °C	
113	0 U/min	100.0 %	8.2 %	990 mbar
114				
115				
116				
117				
118				
119				
120	0 U/min	408 Nm	252 Nm	EGR not active
121				
122	0 U/min	408 Nm	252 Nm	no Eingr.
123				
124				
125	Transmission 1	ABS 1	Combi 1	Air cond.1
126			Airbag 1	Cent Elect 1
127	4WD 1		Steer wheel 1	
128	El.ign.sw. 1			
129				
130	27.0 °C	off	0.0 %	
131	27.0 °C	90.0 °C	off	0.0 %
132		0 °C	0.0 %	0000 1100
133				
134	22 °C	21.0 °C	27.0 °C	27.0 °C
135	off	10.2 %	10.2 %	
136			off	
137	A/C Low	Compr. OFF	5 bar	
138	27.0 °C	113.3 g/s	224 km/h	Test OFF

139	27.0 °C	0.0 kg	10.0 kg	Test OFF
140				
141				
142				
143				
144				
145				
146				
147				
148				
149				
150				
151				
152				
153				
154				
155				
156				
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184				
185				
186				
187				
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190				
191				
192				
193				
194				

195				
196				
197				
198				
199	27.0 °C	0.0 °C	0.0 °C	0000 0000
200	0	automatic	Test OFF	
201	0.0 %	0.0 %		0000 0001
202	0.00 s	0.00 s	Cancel	0100 0001
203	0 U/min	100.0 %	27.0 °C	0000 0001
204	0 U/min	0 km/h	27.0 °C	0000 0001
205	502 Ohm	0.0 %	4	0000 0001
206	502 Ohm	0.0 %	4	0000 0001
207	0.00 s		Test OFF	0000 0001
208	0 U/min	130	-4.00 KW	0010 0001
209	0 U/min	131	-6.00 KW	0010 0001
210	0.00 KW	0.00 KW	1	0000 0001
211	0.00 KW	0.00 KW	1	0000 0001
212	-0.004	0	1.86	0000 0001
213	-0.008	0	1.84	0000 0001
214	0000 0000	0000 0000	0000 0000	1000 0001
215	0000 0000	0000 0000	0000 0000	1000 0001
216	1.02	0110 0001	1.03	0110 0001
217	0.0 %	0110 0001	0.0 %	0110 0001
218	0.008	1.00	1.00	0000 0001
219	1.00	1.00	0.000	1101 0001
220	22.00 kOhm		0.0 °C	0000 0001
221	22.00 kOhm		0.0 °C	0000 0001
222	0.435 V	0.81	0.0 °C	0000 0001
223	0.435 V	0.81	0.0 °C	0000 0001
224	0.435 V	0.435 V	0.0 s	0000 0001
225	0.435 V	1.00	0.00 s	0000 0001
226	0.435 V	1.00	0.00 s	0000 0001
227	0.20	0.0 °C	1.00 s	0111 0001
228	0.38	0.0 °C	1.00 s	0111 0001
229	0.0 %	0.0 %	0.0 %	0000 0001
230				
231	0.0 %	1.00	0.000	0000 0011
232	0.0 %	1.00	0.000	0000 0011
233	0.0 %	1.02	0.0 %	0000 0001
234	0.0 %	1.03	0.0 %	0000 0001
235				
236	1123	1093	1092	0000 0000
237	661	1109	626	0000 0000
238	0000 1111	0000 1111	0001 1111	0
239				
240	0.0 kg	10.0 kg	12	0000 0001
241	27.0 °C	27.0 °C	90.0 °C	28.0 °C
242	0	0	28.0 °C	0010 0001
243	143 °C	-48 °C	0	28.0 °C
244	1.00	1.00	1.00	1.00
245	0.0 %	0.0 %	0.0 %	
246	-2.9 %	0.0 %	27.0 °C	0000 0000
247	-2.9 %	4.9 %	0.0 %	0.0 %
248	1.00	1.00	1.1 g/s	0000 0001
249	0.0 g/s	0.0 g/s	83.3 g/s	0000 0001
250	0.00 KW	0.00 KW	0.00 KW	0.00 KW

251	6.00 KW	130	8.00 KW	131
252	0.0 °	0.00 KW	0.0 °	0.00 KW
253	86	26	2	943
254			0	

ECU

09 70E 778 Central electronic control

Diagnostic data set: VAG\default-

ECU identification

Part number: 7L6937049K
Configuration: 2703 not programmable
System name:
Coding: 101599
Device number: 00000
Importer number: 000
Company number: 31414
Diagnosis software number: P0101

Fault code memory

3 fault code entries

967 Left turn signals
0010 1110 faulty
conditions met
sporadic
Warning lamp off

55082 (unknown fault code)
0000 0100 no signal/no communication
conditions met
not saved
Warning lamp off

35680 (unknown fault code)
0000 0101 basic setting/adaptation faulty
conditions met
not saved
Warning lamp off

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Registered for Brian Rhodes

Date: 3/30/2011 1:12:21 PM

Measurement file: C:\Documents and Settings\rhodesb\Desktop\Touareg_EPA (2005).dra

Vehicle

7LX5D029769

Fault readout before clearing codes after Secondary Air System repair.

Acquisition worker: Brian Rhodes

Location: Rochester Hills, MI

Department: EEO

ECU

01 7E0 7E8 Engine electronics

Diagnostic data set: VAG\default-

ECU identification

Part number: 022906032FT
Configuration: 6388 programmable
System name: MOTRONIC ME7.1.1G
Coding: 00133
Device number: 00000
Importer number: 000
Company number: 31414

Serial number: VWZ3Z0D5246838
Manufacturer plant: 000-000
Manufacturing date: 11.08.04
Revision state: 00000000
Test bench number: 0000
Manufacturer number: 0672
Diagnosis software number: P0000
Partial software: c24g70
Status of Flash: 0000 0000 0 0 0000 0000
Vehicle ident number: Ex. 6

Fault code memory

6 fault code entries

16497 P0113 Intake Air Temp.Circ. High Input
0010 0010 lower limit exceeded

		conditions met sporadic Warning lamp off	
16804	P0420	Catalyst System,Bank1	Efficiency Below Threshold
0010	0001	upper limit exceeded conditions met sporadic Warning lamp off	
16814	P0430	Catalyst System, Bank2	Efficiency Below Threshold
0010	0001	upper limit exceeded conditions met sporadic Warning lamp off	
17831	P1423	Bank1, secondary air system	Flow too Low
1110	0010	lower limit exceeded conditions met static Warning lamp on	
17819	P1411	Bank2, secondary air system	Flow too Low
1110	0010	lower limit exceeded conditions met static Warning lamp on	
16485	P0101	Mass or Volume Air Flow Circ.	Range/Performance
0110	0100	no signal/no communication conditions met static Warning lamp off	

Measured values

1	0 U/min	23.0 °C	0.0 %	0.0 %
2	0 U/min	100.0 %	0.0 ms	0.0 g/s
3	0 U/min	0.0 g/s	8.2 %	0.0 °v.OT
4	0 U/min	11.550 V	23.0 °C	27.0 °C
5	0 U/min	100.0 %	0 km/h	Idling
6	0 U/min	100.0 %	27.0 °C	-3.1 %
7				
8	not operated	Pump OFF	430 mbar	Test OFF
9				
10	0 U/min	100.0 %	8.2 %	0.0 °v.OT
11	0 U/min	23.0 °C	27.0 °C	0.0 °v.OT
12				
13				
14	0 U/min	100.0 %	0	blocked
15	0	0	0	blocked
16	0	0	0	blocked
17				
18	0 U/min	0 U/min	0.0 %	0.0 %

19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	100.0 %	0.00 KW	0.00 KW
23	0 U/min	100.0 %	0.00 KW	0.00 KW
24	0 U/min	100.0 %	0.00 KW	0.00 KW
25				
26	3.861 V	3.861 V	3.861 V	3.861 V
27	3.861 V	3.861 V		
28	0 U/min	100.0 %	23.0 °C	Test OFF
29				
30	___0 0000	___0000	___0 0000	___0000
31	1.00	0.81	1.00	0.81
32	0.0 %	1.6 %	0.0 %	3.1 %
33	0.0 %	1.540 V	0.0 %	1.540 V
34	0 U/min	0.0 °C	1.86	Test OFF
35	0 U/min	0.0 °C	1.84	Test OFF
36	0.435 V	Test OFF	0.435 V	Test OFF
37	100.0 %	0.435 V	-0.004	Test OFF
38	100.0 %	0.435 V	-0.008	Test OFF
39	0.0 g/s	0.435 V	0.435 V	Test OFF
40				
41	502 Ohm	0.0 %		Htg.aC.OFF
42	502 Ohm	0.0 %		Htg.aC.OFF
43	0 U/min	0.0 °C	0.435 V	Test OFF
44	0 U/min	0.0 °C	0.435 V	Test OFF
45				
46	0 U/min	0.0 °C	0.20	Test OFF
47	0 U/min	0.0 °C	0.38	Test OFF
48				
49				
50	0 U/min	950 U/min	A/C Low	Compr. OFF
51	0 U/min	950 U/min	0	11.550 V
52	0 U/min	950 U/min	A/C Low	
53	0 U/min	950 U/min	11.480 V	0.0 %
54	0 U/min	Idling	14 %	8.2 %
55	0 U/min	0.0 %	-2.9 %	___00 0000
56	0 U/min	950 U/min	0.0 %	___00 0000
57	0 U/min	950 U/min	Compr. OFF	6 bar
58	0 U/min	100.0 %		
59				
60	17 %	83 %	0	ADP is OK
61	0 U/min	11.480 V	8.2 %	___00 0000
62	17 %	83 %	14 %	7 %
63	14 %	79 %		ADP is OK
64	0.540 V	4.580 V	0.880 V	4.220 V
65				
66	0 km/h	0010 1000	0 km/h	0000 0000
67				
68				
69				
70	0.0 %	0.0 %		Test OFF
71	Reed closed	Cancel		Test OFF
72	Reed closed	Cancel		Test OFF
73	0.0 %	0.0 %	0.0 %	0.0 %
74				

```

75
76
77 0 U/min      0.0 g/s      0.0 %      Cancel
78 0 U/min      0.0 g/s      0.0 %      Cancel
79
80 000-000 11.08.04 00000000 0000 0672
81 VWGZG77LX5D029769 VWZ3Z0D5246838 <>
82 0000000000000 <> <> <>
83
84
85
86 0000 0000      1111 1111      0110 1011      0000 1011
87 0000 0000      0000 0000      0110 0000      0000 0000
88 1111 1010      1110 1101      1100 1100
89 943            too low
90 0 U/min      20.0 %      0.00 KW      0.00 KW
91 0 U/min      20.0 %      0.00 KW      0.00 KW
92
93 0 U/min      100.0 %      -4.00 KW      -6.00 KW
94 0.00 KW      Test OFF
95 0 U/min      100.0 %      23.0 °C      IMC-V OFF
96 0.00 KW      Test OFF
97
98
99 0 U/min      1.00      1.00      I-Reg.OFF
100 0000 0000      23.0 °C      0 s      1001 0000
101 0 U/min      100.0 %      0.0 ms      0.0 g/s
102 0 U/min      23.0 °C      27.0 °C      0.0 ms
103
104 23.0 °C      0.0 %      0.0 %      0.0 %
105 0 U/min      100.0 %      23.0 °C      off
106
107 0 U/min      0.0 %      0.0 %      Test OFF
108
109
110 0 U/min      23.0 °C      0.0 ms      8.2 %
111
112 0.0 °C      0.0 °C
113 0 U/min      100.0 %      8.2 %      980 mbar
114
115
116
117
118
119
120 0 U/min      408 Nm      250 Nm      EGR not active
121
122 0 U/min      408 Nm      250 Nm      no Eingr.
123
124
125 Transmission 1  ABS 1      Combi 1      Air cond.1
126                      Airbag 1      Cent Elect 1
127 4WD 1      Steer wheel 1
128 El.ign.sw. 1
129
130 23.0 °C      off      0.0 %

```

131	23.0 °C	90.0 °C	off	0.0 %
132		0 °C	0.0 %	0000 1100
133				
134	21 °C	22.0 °C	27.0 °C	23.0 °C
135	off	10.2 %	10.2 %	
136			off	
137	A/C Low	Compr. OFF	6 bar	
138	23.0 °C	113.3 g/s	224 km/h	Test OFF
139	23.0 °C	0.0 kg	10.0 kg	Test OFF

140
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187				
188				
189				
190				
191				
192				
193				
194				
195				
196				
197				
198				
199	23.0 °C	0.0 °C	0.0 °C	0000 0000
200	0	automatic	Test OFF	
201	0.0 %	0.0 %		0000 0001
202	0.00 s	0.00 s	Cancel	0100 0001
203	0 U/min	100.0 %	23.0 °C	0000 0001
204	0 U/min	0 km/h	23.0 °C	0000 0001
205	502 Ohm	0.0 %	3	0000 0001
206	502 Ohm	0.0 %	3	0000 0001
207	0.00 s		Test OFF	0000 0001
208	0 U/min	130	-4.00 KW	0010 0001
209	0 U/min	131	-6.00 KW	0010 0001
210	0.00 KW	0.00 KW	1	0000 0001
211	0.00 KW	0.00 KW	1	0000 0001
212	-0.004	0	1.86	0000 0001
213	-0.008	0	1.84	0000 0001
214	0000 0000	0000 0000	0000 0000	1000 0001
215	0000 0000	0000 0000	0000 0000	1000 0001
216	1.02	0110 0001	1.03	0110 0001
217	0.0 %	0110 0001	0.0 %	0110 0001
218	0.008	1.00	1.01	0000 0011
219	1.00	1.00	0.000	1101 0001
220	22.00 kOhm		0.0 °C	0000 0001
221	22.00 kOhm		0.0 °C	0000 0001
222	0.435 V	0.81	0.0 °C	0000 0001
223	0.435 V	0.81	0.0 °C	0000 0001
224	0.435 V	0.435 V	0.0 s	0000 0001
225	0.435 V	1.00	0.00 s	0000 0001
226	0.435 V	1.00	0.00 s	0000 0001
227	0.20	0.0 °C	1.00 s	0111 0001
228	0.38	0.0 °C	1.00 s	0111 0001
229	0.0 %	0.0 %	0.0 %	0000 0001
230				
231	0.0 %	1.00	0.000	0000 0011
232	0.0 %	1.00	0.000	0000 0011
233	0.0 %	1.02	0.0 %	0000 0001
234	0.0 %	1.03	0.0 %	0000 0001
235				
236	1137	1093	1119	0000 0000
237	661	1120	630	0000 0000
238	0000 1111	0000 1111	0001 1111	0
239				
240	0.0 kg	10.0 kg	12	0000 0001
241	23.0 °C	23.0 °C	38.0 °C	27.0 °C
242	0	0	27.0 °C	0010 0001

243	143 °C	-48 °C	0	27.0 °C
244	1.00	1.00	1.00	1.00
245	0.0 %	0.0 %	0.0 %	
246	-2.9 %	0.0 %	23.0 °C	0000 0000
247	-2.9 %	4.9 %	0.0 %	0.0 %
248	1.00	1.00	1.8 g/s	0000 0011
249	0.0 g/s	0.0 g/s	83.3 g/s	0000 0101
250	0.00 KW	0.00 KW	0.00 KW	0.00 KW
251	6.00 KW	130	8.50 KW	131
252	0.0 °	0.00 KW	0.0 °	0.00 KW
253	86	26	5	943
254			0	

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Registered for Brian Rhodes

Date: 3/30/2011 1:14:58 PM

Measurement file: C:\Documents and Settings\rhodesb\Desktop\Touareg_EPA (2005).dra

Vehicle

7LX5D029769

Fault readout before clearing codes after Secondary Air System repair.

After clearing codes.

Acquisition worker: Brian Rhodes
Location: Rochester Hills, MI
Department: EEO

ECU

01 7E0 7E8 Engine electronics

Diagnostic data set: VAG\default-

ECU identification

Part number: 022906032FT
Configuration: 6388 programmable
System name: MOTRONIC ME7.1.1G
Coding: 00133
Device number: 00000
Importer number: 000
Company number: 31414

Serial number: VWZ3Z0D5246838
Manufacturer plant: 000-000
Manufacturing date: 11.08.04
Revision state: 00000000
Test bench number: 0000
Manufacturer number: 0672
Diagnosis software number: P0000
Partial software: c24g70
Status of Flash: 0000 0000 0 0 0000 0000
Vehicle ident number:

Ex. 6

Fault code memory

0 fault code entries

Measured values

1	0 U/min	23.0 °C	0.0 %	0.0 %
2	0 U/min	100.0 %	0.0 ms	0.0 g/s
3	0 U/min	0.0 g/s	8.2 %	0.0 °v.OT
4	0 U/min	11.480 V	23.0 °C	28.0 °C
5	0 U/min	100.0 %	0 km/h	Idling
6	0 U/min	100.0 %	28.0 °C	-3.1 %
7				
8	not operated	Pump OFF	430 mbar	Test OFF
9				
10	0 U/min	100.0 %	8.2 %	0.0 °v.OT
11	0 U/min	23.0 °C	28.0 °C	0.0 °v.OT
12				
13				
14	0 U/min	100.0 %	0	blocked
15	0	0	0	blocked
16	0	0	0	blocked
17				
18	0 U/min	0 U/min	0.0 %	0.0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	100.0 %	0.00 KW	0.00 KW
23	0 U/min	100.0 %	0.00 KW	0.00 KW
24	0 U/min	100.0 %	0.00 KW	0.00 KW
25				
26	3.861 V	3.861 V	3.861 V	3.861 V
27	3.861 V	3.861 V		
28	0 U/min	100.0 %	23.0 °C	Test OFF
29				
30	___0 0000	___0000	___0 0000	___0000
31	1.00	0.81	1.00	0.81
32	0.0 %	0.0 %	0.0 %	0.0 %
33	0.0 %	1.540 V	0.0 %	1.540 V
34	0 U/min	0.0 °C	1.50	Test OFF
35	0 U/min	0.0 °C	1.50	Test OFF
36	0.435 V	Test OFF	0.435 V	Test OFF
37	100.0 %	0.435 V	-0.004	Test OFF
38	100.0 %	0.435 V	-0.008	Test OFF
39	0.0 g/s	0.435 V	0.435 V	Test OFF
40				
41	502 Ohm	0.0 %		Htg.aC.OFF
42	502 Ohm	0.0 %		Htg.aC.OFF
43	0 U/min	0.0 °C	0.435 V	Test OFF
44	0 U/min	0.0 °C	0.435 V	Test OFF
45				
46	0 U/min	0.0 °C	0.10	Test OFF
47	0 U/min	0.0 °C	0.10	Test OFF
48				
49				
50	0 U/min	950 U/min	A/C Low	Compr. OFF
51	0 U/min	950 U/min	0	11.410 V
52	0 U/min	950 U/min	A/C Low	

53	0 U/min	950 U/min	11.480 V	0.0 %
54	0 U/min	Idling	14 %	8.2 %
55	0 U/min	0.0 %	-2.9 %	—00 0000
56	0 U/min	950 U/min	0.0 %	—00 0000
57	0 U/min	950 U/min	Compr. OFF	6 bar
58	0 U/min	100.0 %		
59				
60	17 %	83 %	0	ADP is OK
61	0 U/min	11.410 V	8.2 %	—00 0000
62	17 %	83 %	14 %	7 %
63	14 %	79 %		ADP is OK
64	0.540 V	4.580 V	0.880 V	4.220 V
65				
66	0 km/h	0010 1000	0 km/h	0000 0000
67				
68				
69				
70	0.0 %	0.0 %		Test OFF
71	Reed closed			Test OFF
72	Reed closed	Cancel		Test OFF
73	0.0 %	0.0 %	0.0 %	0.0 %
74				
75				
76				
77	0 U/min	0.0 g/s	0.0 %	Cancel
78	0 U/min	0.0 g/s	0.0 %	Cancel
79				
80	000-000 11.08.04 000000000 0000 0672			
81	VWVGZG77LX5D029769 VWZ3Z0D5246838 <>			
82	00000000000000 <> <> <>			
83				
84				
85				
86	0110 1101	1111 1111	0110 1011	0000 1011
87	0110 1101	0000 0000	0000 0000	0000 0000
88	1111 1010	1110 1101	1100 1100	
89	0	too low		
90	0 U/min	20.0 %	0.00 KW	0.00 KW
91	0 U/min	20.0 %	0.00 KW	0.00 KW
92				
93	0 U/min	100.0 %		
94	0.00 KW		Test OFF	
95	0 U/min	100.0 %	23.0 °C	IMC-V OFF
96	0.00 KW		Test OFF	
97				
98				
99	0 U/min	1.00	1.00	I-Reg.OFF
100	0110 1101	23.0 °C	0 s	1000 0000
101	0 U/min	100.0 %	0.0 ms	0.0 g/s
102	0 U/min	23.0 °C	28.0 °C	0.0 ms
103				
104	23.0 °C	0.0 %	0.0 %	0.0 %
105	0 U/min	100.0 %	23.0 °C	off
106				
107	0 U/min	0.0 %	0.0 %	Test OFF
108				

109				
110	0 U/min	23.0 °C	0.0 ms	8.2 %
111				
112	0.0 °C		0.0 °C	
113	0 U/min	100.0 %	8.2 %	980 mbar
114				
115				
116				
117				
118				
119				
120	0 U/min	408 Nm	250 Nm	EGR not active
121				
122	0 U/min	408 Nm	250 Nm	no Eingr.
123				
124				
125	Transmission 1	ABS 1	Combi 1	Air cond.1
126		Airbag 1	Cent Elect 1	
127	4WD 1	Steer wheel 1		
128	El.ign.sw. 1			
129				
130	23.0 °C	off	0.0 %	
131	23.0 °C	90.0 °C	off	0.0 %
132		0 °C	0.0 %	0000 1100
133				
134	21 °C	22.0 °C	29.0 °C	23.0 °C
135	off	10.2 %	10.2 %	
136			off	
137	A/C Low	Compr. OFF	6 bar	
138	23.0 °C	113.3 g/s	224 km/h	Test OFF
139	23.0 °C	0.0 kg	10.0 kg	Test OFF
140				
141				
142				
143				
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198

199	23.0 °C	0.0 °C	0.0 °C	0000 0000
200	0	automatic	Test OFF	
201	0.0 %	0.0 %		0000 0000
202	0.00 s	0.00 s		0100 0000
203	0 U/min	100.0 %	23.0 °C	0000 0000
204	0 U/min	0 km/h	23.0 °C	0000 0000
205	502 Ohm	0.0 %	0	0000 0000
206	502 Ohm	0.0 %	0	0000 0000
207	0.00 s		Test OFF	0000 0000
208	0 U/min	126		0000 0000
209	0 U/min	126		0000 0000
210	0.00 KW	0.00 KW	1	0000 0000
211	0.00 KW	0.00 KW	1	0000 0000
212	-0.004	0	1.50	0000 0000
213	-0.008	0	1.50	0000 0000
214	0000 0000	0000 0000	0000 0000	1000 0000
215	0000 0000	0000 0000	0000 0000	1000 0000
216	1.00	0110 0000	1.00	0110 0000
217	0.0 %	0110 0000	0.0 %	0110 0000
218	0.000	1.00	1.00	0000 0000
219	1.00	1.00	0.000	1101 0000
220	22.00 kOhm		0.0 °C	0000 0000

221	22.00 kOhm		0.0 °C	0000 0000
222	0.435 V	0.81	0.0 °C	0000 0000
223	0.435 V	0.81	0.0 °C	0000 0000
224	0.435 V	0.435 V	0.0 s	0000 0000
225	0.435 V	1.00	0.00 s	0000 0000
226	0.435 V	1.00	0.00 s	0000 0000
227	0.10	0.0 °C	1.00 s	0111 0000
228	0.10	0.0 °C	1.00 s	0111 0000
229	0.0 %	0.0 %	0.0 %	0000 0000
230				
231	0.0 %	1.00	0.000	0000 0000
232	0.0 %	1.00	0.000	0000 0000
233	0.0 %	1.00	0.0 %	0000 0000
234	0.0 %	1.00	0.0 %	0000 0000
235				
236	1137	1093	1119	0000 0000
237	661	1120	630	0000 0000
238	0000 1111	0000 1111	0001 1111	0
239				
240	0.0 kg	10.0 kg	0	0000 0000
241	23.0 °C	23.0 °C	38.0 °C	29.0 °C
242	0	0	29.0 °C	0010 0000
243	143 °C	-48 °C	0	29.0 °C
244	1.00	1.00	1.00	1.00
245	0.0 %	0.0 %	0.0 %	
246	-2.9 %	0.0 %	23.0 °C	0000 0000
247	-2.9 %	4.9 %	0.0 %	0.0 %
248	1.00	1.00	1.8 g/s	0000 0000
249	0.0 g/s	0.0 g/s	83.3 g/s	0000 0001
250	0.00 KW	0.00 KW	0.00 KW	0.00 KW
251	1.00 KW	126	1.00 KW	126
252	0.0 °	0.00 KW	0.0 °	0.00 KW
253	89	23	0	0
254			0	

DiagRA D Version 4.5.29.508 Copyright by RA Consulting GmbH

Registered for Brian Rhodes

Date: 3/30/2011 2:48:53 PM

Measurement file: C:\Documents and Settings\rhodesb\Desktop\Touareg_EPA (2005).dra

Vehicle

7LX5D029769

89312 Miles

Fault readout after clearing codes after Secondary Air System repair after test drive.

Acquisition worker: Brian Rhodes

Location: Rochester Hills, MI

Department: EEO

ECU

01 7E0 7E8 Engine electronics

Diagnostic data set: VAG\default-

ECU identification

Part number: 022906032FT
Configuration: 6388 programmable
System name: MOTRONIC ME7.1.1G
Coding: 00133
Device number: 00000
Importer number: 000
Company number: 31414

Serial number: VWZ3Z0D5246838
Manufacturer plant: 000-000
Manufacturing date: 11.08.04
Revision state: 00000000
Test bench number: 0000
Manufacturer number: 0672
Diagnosis software number: P0000
Partial software: c24g70
Status of Flash: 0000 0000 0 0 0000 0000
Vehicle ident number:

Ex. 6

Fault code memory

1 fault code entries

16814 P0430 Catalyst System, Bank2 Efficiency Below Threshold
0110 0001 upper limit exceeded
conditions met
static
Warning lamp off

Measured values

1	0 U/min	87.0 °C	0.0 %	0.0 %
2	0 U/min	100.0 %	0.0 ms	0.0 g/s
3	0 U/min	0.0 g/s	8.6 %	0.0 °v.OT
4	0 U/min	12.110 V	88.0 °C	29.0 °C
5	0 U/min	100.0 %	0 km/h	Idling
6	0 U/min	100.0 %	29.0 °C	-4.7 %
7				
8	not operated	Pump OFF	530 mbar	Test OFF
9				
10	0 U/min	100.0 %	8.6 %	0.0 °v.OT
11	0 U/min	88.0 °C	30.0 °C	0.0 °v.OT
12				
13				
14	0 U/min	100.0 %	0	blocked
15	0	0	0	blocked
16	0	0	0	blocked
17				
18	0 U/min	0 U/min	0.0 %	0.0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22	0 U/min	100.0 %	0.00 KW	0.00 KW
23	0 U/min	100.0 %	0.00 KW	0.00 KW
24	0 U/min	100.0 %	0.00 KW	0.00 KW
25				
26	3.861 V	3.861 V	3.861 V	3.861 V
27	3.861 V	3.861 V		
28	0 U/min	100.0 %	88.0 °C	Test OFF
29				
30	0 0000	0000	0 0000	0000
31	1.00	0.97	1.00	0.97
32	1.1 %	-0.8 %	1.5 %	0.8 %
33	0.0 %	1.520 V	0.0 %	1.520 V
34	0 U/min	0.0 °C	1.97	Test OFF
35	0 U/min	0.0 °C	2.02	Test OFF
36	0.435 V	Test OFF	0.460 V	Test OFF
37	100.0 %	0.435 V	-0.004	Test OFF
38	100.0 %	0.460 V	-0.004	Test OFF
39	0.0 g/s	0.435 V	0.465 V	Test OFF
40				
41	502 Ohm	0.0 %		Htg.aC.OFF
42	502 Ohm	0.0 %		Htg.aC.OFF
43	0 U/min	0.0 °C	0.435 V	Test OFF
44	0 U/min	0.0 °C	0.460 V	Test OFF
45				
46	0 U/min	0.0 °C	0.27	Test OFF

47	0 U/min	0.0 °C	0.48	Test OFF
48				
49				
50	0 U/min	700 U/min	A/C Low	Compr. OFF
51	0 U/min	700 U/min	0	12.110 V
52	0 U/min	700 U/min	A/C Low	
53	0 U/min	700 U/min	12.110 V	0.0 %
54	0 U/min	Idling	14 %	8.6 %
55	0 U/min	0.0 %	-2.9 %	__00 0000
56	0 U/min	700 U/min	0.0 %	__00 0000
57	0 U/min	700 U/min	Compr. OFF	7 bar
58	0 U/min	100.0 %		
59				
60	17 %	83 %	0	ADP is OK
61	0 U/min	12.110 V	8.6 %	__00 0000
62	17 %	83 %	14 %	7 %
63	14 %	79 %		ADP is OK
64	0.540 V	4.580 V	0.880 V	4.220 V
65				
66	0 km/h	0010 1000	0 km/h	0000 0000
67				
68				
69				
70	0.0 %	0.0 %		Test OFF
71	Reed closed	Cancel		Test OFF
72	Reed closed	Cancel		Test OFF
73	0.0 %	0.0 %	0.0 %	0.0 %
74				
75				
76				
77	0 U/min	0.0 g/s	0.0 %	Test OFF
78	0 U/min	0.0 g/s	0.0 %	Test OFF
79				
80	000-000 11.08.04 00000000 0000 0672			
81	VWVGZG77LX5D029769 VWZ3Z0D5246838 <>			
82	00000000000000 <> <> <>			
83				
84				
85				
86	0100 1000	1111 1111	0110 1011	0000 1011
87	0100 1000	0000 0010	0000 0000	0000 0000
88	1111 1010	1110 1101	1100 1100	
89	0	too low		
90	0 U/min	20.0 %	0.00 KW	0.00 KW
91	0 U/min	20.0 %	0.00 KW	0.00 KW
92				
93	0 U/min	100.0 %	-4.00 KW	-5.00 KW
94	0.00 KW		Test OFF	
95	0 U/min	100.0 %	87.0 °C	IMC-V OFF
96	0.00 KW		Test OFF	
97				
98				
99	0 U/min	1.00	1.00	I-Reg.OFF
100	0100 1000	87.0 °C	0 s	1001 0000
101	0 U/min	100.0 %	0.0 ms	0.0 g/s
102	0 U/min	88.0 °C	30.0 °C	0.0 ms

103				
104	88.0 °C	0.0 %	0.0 %	0.0 %
105	0 U/min	100.0 %	88.0 °C	off
106				
107	0 U/min	0.0 %	0.0 %	Test OFF
108				
109				
110	0 U/min	88.0 °C	0.0 ms	8.6 %
111				
112	0.0 °C		0.0 °C	
113	0 U/min	100.0 %	8.6 %	980 mbar
114				
115				
116				
117				
118				
119				
120	0 U/min	408 Nm	280 Nm	EGR not active
121				
122	0 U/min	408 Nm	280 Nm	no Eingr.
123				
124				
125	Transmission 1	ABS 1	Combi 1	Air cond.1
126			Airbag 1	Cent Elect 1
127	4WD 1		Steer wheel 1	
128	El.ign.sw. 1			
129				
130	88.0 °C	off	0.0 %	
131	88.0 °C	90.0 °C	off	0.0 %
132		0 °C	0.0 %	0000 1100
133				
134	81 °C	4.0 °C	31.0 °C	88.0 °C
135	off	11.4 %	11.4 %	
136			off	
137	A/C Low	Compr. OFF	7 bar	
138	88.0 °C	113.3 g/s	224 km/h	Test OFF
139	88.0 °C	0.0 kg	5.4 kg	Test OFF
140				
141				
142				
143				
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191				
192				
193				
194				
195				
196				
197				
198				
199	88.0 °C	0.0 °C	0.0 °C	0000 0000
200	0	automatic	Test OFF	
201	0.0 %	0.0 %		0000 0001
202	0.00 s	0.00 s	Cancel	0100 0001
203	0 U/min	100.0 %	88.0 °C	0000 0001
204	0 U/min	0 km/h	88.0 °C	0000 0001
205	502 Ohm	0.0 %	4	0000 0001
206	502 Ohm	0.0 %	4	0000 0001
207	0.00 s		Test OFF	0000 0001
208	0 U/min	129	-4.00 KW	0010 0001
209	0 U/min	130	-5.00 KW	0010 0001
210	0.00 KW	0.00 KW	1	0000 0001
211	0.00 KW	0.00 KW	1	0000 0001
212	-0.004	0	1.97	0000 0001
213	-0.004	0	2.02	0000 0001
214	0000 0000	0000 0000	0000 0000	1000 0001

215	0000 0000	0000 0000	0000 0000	1000 0001
216	0.99	0110 0001	1.01	0110 0001
217	1.1 %	0110 0001	1.5 %	0110 0001
218	0.000	1.00	0.98	0000 0001
219	1.01	1.01	0.000	1101 0001
220	22.00 kOhm		0.0 °C	0000 0001
221	22.00 kOhm		0.0 °C	0000 0001
222	0.435 V	0.97	0.0 °C	0000 0001
223	0.450 V	0.97	0.0 °C	0000 0001
224	0.435 V	0.455 V	0.0 s	0000 0001
225	0.435 V	1.00	0.00 s	0000 0001
226	0.455 V	1.00	0.00 s	0000 0001
227	0.27	0.0 °C	1.00 s	0111 0001
228	0.48	0.0 °C	1.00 s	0111 0011
229	0.0 %	0.0 %	0.0 %	0000 0001
230				
231	0.0 %	1.00	0.000	0000 0001
232	0.0 %	1.00	0.000	0000 0001
233	0.0 %	0.99	1.1 %	0000 0001
234	0.0 %	1.01	1.5 %	0000 0001
235				
236	1139	1097	1119	0000 0000
237	661	1122	639	0000 0000
238	0000 1111	0000 1111	0001 1111	0
239				
240	0.0 kg	5.4 kg	0	0000 0001
241	50.0 °C	88.0 °C	90.0 °C	33.0 °C
242	0	0	33.0 °C	0010 0001
243	143 °C	-48 °C	0	33.0 °C
244	1.00	1.00	1.00	1.00
245	0.0 %	0.0 %	0.0 %	
246	-2.9 %	0.0 %	88.0 °C	0000 0000
247	-2.9 %	-1.0 %	0.0 %	-3.7 %
248	1.00	0.97	1.2 g/s	0000 0001
249	0.0 g/s	0.0 g/s	83.3 g/s	0000 0001
250	0.00 KW	0.00 KW	0.00 KW	0.00 KW
251	4.50 KW	129	5.50 KW	130
252	0.0 °	0.00 KW	0.0 °	0.00 KW
253	86	26	1	0
254			0	



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons **40% Fill** Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force*mph²

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative: _____

Date: _____

EG&G Representative: _____

Date: _____

EPA Representative:

Date:

Drive on street



In general:

This procedure will adapt the test vehicle after erasing fault memory. After the procedure it needs to be checked if any other pending faults are stored.

*** should contain:**

- Stop and go
- No kickdown

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Kim Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA;CN=Ben Haynes/OU=AA/O=USEPA/C=US@EPA[]; N=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA;CN=Ben Haynes/OU=AA/O=USEPA/C=US@EPA[]; N=Ben Haynes/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 4/1/2011 1:45:03 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)

Dear Sebastian,

Please include the people that are listed on this e-mail when you send the parameters because I will be out next week.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0064 (2005 VW/Touareg) - VIN# Ex. 6 04/06/11 (Wednesday) 0900 Veh. pick up

Please send the following to me for these vehicles before pick-up. Please use the attached form:

- vehicle target road-load coefficients
- fuel tank capacity
- 40% tank capacity
- tire pressure
- applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Kim Cieslak/AA/USEPA/US@EPA; Bernd Liebner/AA/USEPA/US@EPA; Ben Haynes/AA/USEPA/US@EPA[]; Bernd Liebner/AA/USEPA/US@EPA; Ben Haynes/AA/USEPA/US@EPA[]; Ben Haynes/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 4/1/2011 3:09:47 PM
Subject: RE: In-use vehicles scheduled for next week
[P121RXX-0064 In-Use Parameters Form.pdf](#)
[Touareg MY05 fuel drain.pdf](#)

Hello Lynn,

Attached you will find the data to the second car we will inspect on Monday, April 11th in your lab. We will be there at 8 am on Monday.

Please let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

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<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, April 01, 2011 9:45 AM
To: Berenz, Sebastian
Cc: Cieslak.Kim@epamail.epa.gov; Liebner.Bernd@epamail.epa.gov; Haynes.Ben@epamail.epa.gov
Subject: In-use vehicles scheduled for next week

Dear Sebastian,

Please include the people that are listed on this e-mail when you send the parameters because I will be

out next week.

Listed below is the information for the vehicles that we have scheduled for next week.

P121RXX-0064 (2005 VW/Touareg) - VIN# Ex. 6 4/06/11
(Wednesday) 0900 Veh. pick up

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:

Equivalent Test Weight: Pounds

Nominal Fuel Tank Capacity: Gallons 40% Fill Gallons

Drive Axle: Front, Rear or All wheel drive

Tire Pressure: PSI

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Vehicle Set Road-Load Coefficients

A Lb-force

B Lb-force*mph

C Lb-force* mph^2

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

- * Letter, e-mail, fax or other document delivered from the manufacturer
(attach any additional information from the manufacturer to this form)
- * Verbal instruction from the manufacturer's representative
- * Other (specify)

Manufacturer Representative:

Date:

EG&G Representative:

Date:

EPA Representative:

Date:

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 4/11/2011 4:34:36 PM
Subject: Test data for in-use vehicle P121-0014
[P121RXX-0014.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

CUSD

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0131-004

Vehicle ID: P121RXX-0014

Test Information

Test Date: 4/6/2011

MFR Name: VOLKSWAGEN

Key Start: 16:59:19

MFR Codes: 590

VWX



Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 90 US06 (us06warmup_us06)

Shift Schedule: A09980041

Calculation Method: Gasoline

Beginning Odometer: 089379.0 MI

Pretest Remarks:

Drive Schedule: us06_us06

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	15.976	729.590	4.595	1.521	5.186	
Ambient	2.896	1.164	0.040	0.047	2.041	
Net Concentration	13.424	728.565	4.560	1.480	3.388	9.553

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.149	16.374	0.153	522.6	0.044	0.106	16.265

Fuel Economy

Gasoline MPG

Phase 1

16.23

Dyno Settings

Dyno #: D329 - AWD

Inertia: 5500

EPA Set Co A: 4.57

EPA Set Co B: -0.0872

EPA Set Co C: 0.02927

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0131-004

Vehicle ID: P121RXX-0014

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	1.194	130.847	1.224	4175.9	0.349	0.850	1.143

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.91			
Avg Cell Temp (degF)	75.06			
Dew Point (degF)	49.27			
Specific Humidity (grains/lbm)	53.94			
NOx Corr Factor	0.9099			
CO2 Dilution Factor	8.400			
CFV Vmix (scf @68F)	5447.25			

CVS Flow Rate Avg (scfm) 543.01

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	601.90
Distance (miles)	7.991
Bag Analysis Time (secs)	154.8

CISD
CVS

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2011-0131-003

Vehicle ID: P121RXX-0014

Test Information

Test Date: 4/6/2011

MFR Name: VOLKSWAGEN

Key Start: 15:54:42

MFR Codes: 590

VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 089358.0 MI

Pretest Remarks:

Drive Schedule: hwfet_hwfet



Bag Data

Phase 1

	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	6.929	135.279	2.866	1.669	3.205	
Ambient	3.222	0.357	0.041	0.047	2.072	
Net Concentration	4.112	134.967	2.830	1.628	1.393	2.520

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.027	1.781	0.056	337.7	0.011	0.016	26.209

Fuel Economy

Gasoline MPG

Phase 1 26.15

Dyno Settings

Dyno #: D329 - AWD

Inertia: 5500

EPA Set Co A: 4.57

EPA Set Co B: -0.0872

EPA Set Co C: 0.02927

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0131-003			Vehicle ID: P121RXX-0014				
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.275	18.249	0.575	3459.8	0.108	0.169	1.143

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.89			
Avg Cell Temp (degF)	75.25			
Dew Point (degF)	49.88			
Specific Humidity (grains/lbm)	55.22			
NOx Corr Factor	0.9149			
CO2 Dilution Factor	7.961			
CFV Vmix (scf @68F)	4101.07			
CVS Flow Rate Avg (scfm)	321.65			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.00			
Distance (miles)	10.246			
Bag Analysis Time (secs)	144.8			

v101208 - d329 EPAVDAEm110406152718

Page 2 of 2

Print Time 06-Apr-2011 16:17

C150
CVS

NVFEL Laboratory Test Data
Final Laboratory Test Results

Test Information



Test Number: 2011-0131-002
 Test Date: 4/6/2011
 Key Start / Hot Soak: 14:37:58 / 09:58
 Fuel Container ID: F00023
 Fuel Type: 61 Tier 2 Cert Test Fuel
 Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)
 Calculation Method: Gasoline
 Pretest Remarks:

Vehicle ID: P121RXX-0014
 MFR Name: VOLKSWAGEN
 MFR Codes: 590 VWX
 Config #: 00
 Transmission: AUTO
 Shift Schedule: A09980005
 Beginning Odometer: 089347.0 MI
 Drive Schedule: ftp3bag
 Soak Period: 29.5 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	45.275	295.598	13.193	1.455	6.024	
Ambient	3.590	0.407	0.064	0.046	2.166	
Net Concentration	42.084	295.235	13.136	1.413	4.098	37.400

Remarks:

Phase 2

Sample	3.871	13.750	0.198	0.909	2.237	
Ambient	3.585	0.272	0.056	0.047	2.135	
Net Concentration	0.529	13.497	0.145	0.866	0.246	0.248

Remarks:

Phase 3

Sample	6.735	43.113	0.696	1.215	3.156	
Ambient	3.221	0.295	0.050	0.047	2.103	
Net Concentration	3.808	42.845	0.651	1.172	1.244	2.385

Remarks:

Phase 4

Sample
 Ambient
 Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.525	7.439	0.495	559.6	0.059	0.467	15.577
Phase 2	0.011	0.545	0.009	549.0	0.006	0.005	16.232
Phase 3	0.048	1.083	0.025	465.5	0.018	0.030	19.098
Weighted	0.12775	2.12571	0.11418	528.179	0.02020	0.10779	

Fuel Economy

	Gasoline MPG	Dyno Settings	Dyno #:
Phase 1	15.54		D329 - AWD
Phase 2	16.19		Inertia: 5500
Phase 3	19.05		EPA Set Co A: 4.57
			EPA Set Co B: -0.0872
			EPA Set Co C: 0.02927
Weighted	16.75		Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0131-002

Vehicle ID: P121RXX-0014

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	1.881	26.636	1.772	2003.6	0.212	1.671	1.143
Phase 2	0.040	2.084	0.034	2101.3	0.022	0.019	
Phase 3	0.171	3.880	0.088	1668.4	0.065	0.107	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.89	28.89	28.90	
Avg Cell Temp (degF)	75.82	75.12	73.40	
Dew Point (degF)	49.39	49.28	49.39	
Specific Humidity (grains/lbm)	54.21	53.99	54.19	
NOx Corr Factor	0.9110	0.9101	0.9109	
CO2 Dilution Factor	9.001	14.706	10.984	
CFV Vmix (scf @68F)	2736.38	4683.76	2746.65	
CVS Flow Rate Avg (scfm)	324.09	323.02	325.37	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.60	870.00	506.50	
Distance (miles)	3.580	3.828	3.584	
Bag Analysis Time (secs)	879.5	1119.4	160.0	

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 4/21/2011 1:40:28 PM
Subject: Standards for the Touareg

Hi, Sebastian.

There seems to be some confusion here about the US06 standards for the Touareg. Please let us know the full useful life standards and what category it is certified to (LDT2, LDT3, LDT4)? Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 4/21/2011 1:45:04 PM
Subject: Test data for in-use vehicle P121-0064
[P121RXX-0064.pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

C15D

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0139-002		Vehicle ID: P121RXX-0064					
Test Date: 4/14/2011		MFR Name VOLKSWAGEN					
Key Start / Hot Soak: 07:21:12 / 09:42		MFR Codes: 590 VWX					
Fuel Container ID: F00023		Config #: 00					
Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO					
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp)		Shift Schedule: A09980005					
Calculation Method: Gasoline		Beginning Odometer: 087561.0 MI					
Pretest Remarks:		Drive Schedule: ftp3bag					
		Soak Period: 18.1 hours					
Bag Data							
		HC-FID	CO	NOx	CO2	CH4	NonMeth HC
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Phase 1	Sample	29.803	238.148	5.284	1.416	4.777	
	Ambient	7.103	0.286	0.015	0.043	1.967	
	Net Concentration	23.465	237.893	5.271	1.378	3.022	20.010
	Remarks:						
Phase 2	Sample	7.223	2.841	0.238	0.863	2.038	
	Ambient	7.424	0.031	0.013	0.044	1.962	
	Net Concentration	0.279	2.812	0.226	0.822	0.203	0.047
	Remarks:						
Phase 3	Sample	7.656	10.622	0.799	1.198	2.709	
	Ambient	5.981	0.178	0.014	0.044	1.967	
	Net Concentration	2.210	10.461	0.786	1.158	0.918	1.161
	Remarks:						
Phase 4	Sample						
	Ambient						
	Net Concentration						
	Remarks:						
Results							
		HC-FID	CO	NOx	CO2	CH4	NMHC
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
	Phase 1	0.297	6.074	0.179	552.8	0.044	0.253
	Phase 2	0.006	0.115	0.012	526.4	0.005	0.001
	Phase 3	0.028	0.268	0.027	466.2	0.013	0.015
	Weighted	0.07220	1.39347	0.05089	515.352	0.01533	0.05705
Fuel Economy							
		Gasoline MPG					Dyno Settings
	Phase 1	15.81					Dyno #: D329 - AWD
	Phase 2	16.91					Inertia: 5500
	Phase 3	19.08					EPA Set Co A: 10.82
							EPA Set Co B: 0.1318
							EPA Set Co C: 0.02805
	Weighted	17.21					Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0139-002

Vehicle ID: P121RXX-0064

Results




	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	1.059	21.685	0.640	1973.6	0.158	0.903	1.143
Phase 2	0.022	0.439	0.047	2015.1	0.018	0.004	
Phase 3	0.100	0.957	0.096	1665.4	0.048	0.053	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.18	29.18	29.18	
Avg Cell Temp (degF)	74.94	74.90	74.94	
Dew Point (degF)	30.26	30.23	29.93	
Specific Humidity (grains/lbm)	25.31	25.28	24.97	
NOx Corr Factor	0.8107	0.8106	0.8096	
CO2 Dilution Factor	9.285	15.502	11.165	
CFV Vmix (scf @68F)	2764.73	4730.37	2775.50	
CVS Flow Rate Avg (scfm)	327.25	326.42	328.66	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.90	869.50	506.70	
Distance (miles)	3.570	3.828	3.572	
Bag Analysis Time (secs)	879.0	1105.0	160.6	

C150

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results							
Test Number: 2011-0139-003		Vehicle ID: P121RXX-0064					
	Test Date: 4/14/2011		MFR Name VOLKSWAGEN				
	Key Start: 08:39:53		MFR Codes: 590 VWX				
	Fuel Container ID: F00023		Config #: 00				
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO				
	Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011				
	Calculation Method: Gasoline		Beginning Odometer: 087572.0 MI				
Pretest Remarks:		Drive Schedule: hwfet_hwfet					
<hr/>							
Bag Data							
	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	8.001	78.037	1.515	1.619	2.776		
Ambient	5.549	0.299	0.018	0.045	1.943		
Net Concentration	3.126	77.774	1.499	1.579	1.070	1.904	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
<hr/>							
Results							
	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.021	1.038	0.027	331.2	0.008	0.013	26.812
<hr/>							
Fuel Economy							
	Gasoline MPG	Dyno Settings					
Phase 1	26.75	Dyno #: D329 - AWD					
		Inertia: 5500					
		EPA Set Co A: 10.82					
		EPA Set Co B: 0.1318					
		EPA Set Co C: 0.02805					
		Emiss-Bench: Mexa 7200sle					
<hr/>							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0139-003

Vehicle ID: P121RXX-0064

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.212	10.638	0.273	3393.9	0.084	0.129	1.143

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.20			
Avg Cell Temp (degF)	74.92			
Dew Point (degF)	30.06			
Specific Humidity (grains/lbm)	25.08			
NOx Corr Factor	0.8100			
CO2 Dilution Factor	8.234			
CFV Vmix (scf @68F)	4148.74			
CVS Flow Rate Avg (scfm)	325.39			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.00			
Distance (miles)	10.248			
Bag Analysis Time (secs)	144.8			

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0139-005

Vehicle ID: P121RXX-0064

Test Information

Test Date: 4/19/2011

MFR Name VOLKSWAGEN

Key Start: 15:37:20

MFR Codes: 590

VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 90 US06 (us06warmup_us06)

Shift Schedule: A09980041

Calculation Method: Gasoline

Beginning Odometer: 087609.0 MI

Pretest Remarks:

Drive Schedule: us06_us06



Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	13.084	520.472	2.504	1.493	4.620	
Ambient	3.985	1.316	0.055	0.046	1.968	
Net Concentration	9.558	519.308	2.455	1.452	2.879	6.268

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.109	11.911	0.084	523.5	0.038	0.071	16.451

Fuel Economy

Gasoline MPG

Dyno Settings

Phase 1	16.41	Dyno #: D329 - AWD
		Inertia: 5500
		EPA Set Co A: 10.82
		EPA Set Co B: 0.1318
		EPA Set Co C: 0.02805
		Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0139-005

Vehicle ID: P121RXX-0064

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.868	95.170	0.669	4182.6	0.302	0.569	1.143

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.96			
Avg Cell Temp (degF)	75.96			
Dew Point (degF)	48.68			
Specific Humidity (grains/lbm)	52.65			
NOx Corr Factor	0.9050			
CO2 Dilution Factor	8.667			
CFV Vmix (scf @68F)	5558.49			
CVS Flow Rate Avg (scfm)	554.37			
Fan Placement: USO6 Only - One Large Fan - Up - Front				
Phase Time (secs)	601.59			
Distance (miles)	7.990			
Bag Analysis Time (secs)	155.0			

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 4/21/2011 3:35:22 PM
Subject: FW: Standards for the Touareg
sebastian.berenz@vw.com
<http://www.volkswagen.com>
sebastian.berenz@vw.com
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>

Sorry Lynn,

I forgot to add that the Touareg is a LDT4.

Sorry for that.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Thursday, April 21, 2011 11:34 AM
To: 'Sohacki.Lynn@epamail.epa.gov'
Subject: RE: Standards for the Touareg

Hello Lynn,

Thank you very much for the information.

We certified the MY2005 Touareg test group 5VWXT03.2225 as a LEVII/LEV Bin5 testgroup.

For SFTP we have the following standards:

- NMHC + NOx Composite: 1.41 g/mi (0.35*FTP result + 0.28*US06 result + 0.37* SC03 result)
- CO: 19.3 g/mi

As far as I reviewed the results from in-use vehicle P121-0064, it passed quite good.

Please let me know if you have any further questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, April 21, 2011 9:40 AM
To: Berenz, Sebastian
Cc: Mazaitis.Vincent@epamail.epa.gov
Subject: Standards for the Touareg

Hi, Sebastian.

There seems to be some confusion here about the US06 standards for the

Touareg. Please let us know the full useful life standards and what

category it is certified to (LDT2, LDT3, LDT4)? Thanks.

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 4/22/2011 3:21:26 PM
Subject: Test data for in-use vehicle P121-0014
[P121RXX-0014\(2\).pdf](#)

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Information



Test Number: 2011-0131-005
Test Date: 4/20/2011
Key Start / Hot Soak: 13:09:52 / 09:44
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp
Calculation Method: Gasoline
Pretest Remarks:

Vehicle ID: P121RXX-0014
MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 089454.0 MI
Drive Schedule: ftp3bag
Soak Period: 22.1 hours

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	35.967	304.186	5.835	1.417	4.869	
Ambient	3.594	0.000	0.055	0.044	1.901	
Net Concentration	32.761	304.186	5.786	1.378	3.173	29.134

Remarks:

Phase 2

Sample	4.124	14.278	0.215	0.890	2.037	
Ambient	3.676	0.000	0.034	0.044	1.898	
Net Concentration	0.693	14.278	0.183	0.850	0.266	0.389

Remarks:

Phase 3

Sample	6.568	35.511	0.691	1.211	2.893	
Ambient	3.270	0.000	0.014	0.044	1.895	
Net Concentration	3.595	35.511	0.678	1.171	1.170	2.257

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.419	7.855	0.223	559.0	0.047	0.373	15.585
Phase 2	0.014	0.589	0.011	551.0	0.006	0.008	16.171
Phase 3	0.046	0.913	0.026	473.0	0.017	0.029	18.805
Weighted	0.10699	2.18803	0.05927	531.149	0.01775	0.08945	

Fuel Economy

	Gasoline MPG
Phase 1	15.55
Phase 2	16.13
Phase 3	18.76
Weighted	16.65

Dyno Settings

Dyno #: D329 - AWD
Inertia: 5500
EPA Set Co A: 4.57
EPA Set Co B: -0.0872
EPA Set Co C: 0.02927

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0131-005

Vehicle ID: P121RXX-0014

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	1.499	28.107	0.797	2000.1	0.168	1.333	1.143
Phase 2	0.054	2.255	0.043	2108.8	0.024	0.030	
Phase 3	0.164	3.274	0.093	1696.4	0.062	0.103	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.93	28.94	28.94	
Avg Cell Temp (degF)	74.61	75.41	75.22	
Dew Point (degF)	48.92	48.97	49.13	
Specific Humidity (grains/lbm)	53.20	53.28	53.60	
NOx Corr Factor	0.9070	0.9074	0.9086	
CO2 Dilution Factor	9.237	15.017	11.025	
CFV Vmix (scf @68F)	2802.52	4790.76	2796.20	
CVS Flow Rate Avg (scfm)	331.79	330.51	330.85	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	506.80	869.70	507.10	
Distance (miles)	3.578	3.828	3.586	
Bag Analysis Time (secs)	879.2	1106.9	161.0	

CISD

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Information



Test Number: 2011-0131-006

Vehicle ID: P121RXX-0014

Test Date: 4/20/2011

MFR Name: VOLKSWAGEN

Key Start: 14:25:27

MFR Codes: 590

VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Shift Schedule: A09980011

Calculation Method: Gasoline

Beginning Odometer: 089464.0 MI

Pretest Remarks:

Drive Schedule: hwfet_hwfet

Bag Data

Phase 1

	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	7.235	128.840	2.342	1.676	3.050	
Ambient	3.096	0.000	0.014	0.045	1.893	
Net Concentration	4.529	128.840	2.330	1.637	1.395	2.934

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC (gpm)	Vol MPG (mpg)
Phase 1	0.030	1.720	0.046	343.5	0.011	0.019	25.774

Fuel Economy

Gasoline MPG

Phase 1 25.71

Dyno Settings

Dyno #: D329 - AWD

Inertia: 5500

EPA Set Co A: 4.57

EPA Set Co B: -0.0872

EPA Set Co C: 0.02927

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0131-006

Vehicle ID: P121RXX-0014

Results



	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.307	17.638	0.476	3521.9	0.109	0.199	1.143

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.98			
Avg Cell Temp (degF)	74.76			
Dew Point (degF)	49.25			
Specific Humidity (grains/lbm)	53.75			
NOx Corr Factor	0.9092			
CO2 Dilution Factor	7.931			
CFV Vmix (scf @68F)	4152.27			
CVS Flow Rate Avg (scfm)	325.63			
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	765.10			
Distance (miles)	10.253			
Bag Analysis Time (secs)	144.8			

C15D

NVFEL Laboratory Test Data
Final Laboratory Test Results

CVS

Test Number: 2011-0131-007

Vehicle ID: P121RXX-0014

Test Information

Test Date: 4/20/2011

MFR Name: VOLKSWAGEN

Key Start: 15:09:58

MFR Codes: 590

VWX

Fuel Container ID: F00023

Config #: 00

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 90 US06 (us06warmup_us06)

Shift Schedule: A09980041

Calculation Method: Gasoline

Beginning Odometer: 089485.0 MI

Pretest Remarks:

Drive Schedule: us06_us06



Bag Data

Phase 1

	<u>HC-FID</u> (ppmC)	<u>CO</u> (ppm)	<u>NOx</u> (ppm)	<u>CO2</u> (%)	<u>CH4</u> (ppm)	<u>NonMeth HC</u> (ppmC)
Sample	20.330	730.040	4.348	1.488	5.966	
Ambient	3.056	0.301	0.018	0.043	1.901	
Net Concentration	17.631	729.774	4.333	1.449	4.286	12.732

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results

	<u>HC-FID</u> (gpm)	<u>CO</u> (gpm)	<u>NOx</u> (gpm)	<u>CO2</u> (gpm)	<u>CH4</u> (gpm)	<u>NMHC</u> (gpm)	<u>Vol MPG</u> (mpg)
Phase 1	0.200	16.687	0.147	520.8	0.056	0.144	16.297

Fuel Economy

Gasoline MPG

Phase 1 16.26

Dyno Settings

Dyno #: D329 - AWD

Inertia: 5500

EPA Set Co A: 4.57

EPA Set Co B: -0.0872

EPA Set Co C: 0.02927

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2011-0131-007

Vehicle ID: P121RXX-0014

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
Phase 1	(grams) 1.596	(grams) 133.418	(grams) 1.178	(grams) 4164.1	(grams) 0.449	(grams) 1.153	1.143

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.00			
Avg Cell Temp (degF)	74.42			
Dew Point (degF)	48.81			
Specific Humidity (grains/lbm)	52.83			
NOx Corr Factor	0.9056			
CO2 Dilution Factor	8.574			
CFV Vmix (scf @68F)	5545.08			

CVS Flow Rate Avg (scfm) 552.76

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	601.90
Distance (miles)	7.995
Bag Analysis Time (secs)	154.9

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 5/23/2011 9:06:31 PM
Subject: Class P156
[NOTIF-P-156-Volkswagen.pdf](#)

Hi, Sebasitan.

I am sending you a copy of this letter that I just sent to Dennis. The test group that I'd originally selected has been changed to a different test group. I apologize for any inconvenience this may have caused.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

May 23, 2011

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Road
Auburn Hills, Michigan 48326

OFFICE OF
AIR AND RADIATION

Dear Mr. Reineke:

The Environmental Protection Agency will test a 2009 model-year Volkswagen test-group in our surveillance test-program. This class will replace the test group that was originally designated in my April 1 letter to you. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of two or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

One vehicle may be subjected to evaporative testing and a US06 is usually run per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

A handwritten signature in cursive script, reading "Lynn Sohacki".

Lynn Sohacki
Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

Lab

NVFEL
Ann Arbor, Michigan

Test Group

9VWXV02.5U35

Estimated Start Date

Week-ending July 8, 2011

Recall/Testing Representative

Lynn Sohacki

Telephone Number

(734) 214-4851

E-mail address

Sohacki.lynn@epa.gov

Class Numbers

P156/P157 (low-mileage / high-mileage)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 5/23/2011 9:09:09 PM
Subject: RE: Class P156

Hello Lynn,

Thank you very much for that information.

Let us know whenever we will get the first cars to inspect.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Environmental Engineering Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, May 23, 2011 5:07 PM
To: Berenz, Sebastian
Subject: Class P156

Hi, Sebasitan.

I am sending you a copy of this letter that I just sent to Dennis. The test group that I'd originally selected has been changed to a different test group. I apologize for any inconvenience this may have caused.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

(See attached file: NOTIF-P-156-Volkswagen.pdf)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 6/30/2011 2:18:26 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P156RXX-0091 (2009 VW Jetta) - VIN Ex. 6 to be picked up July 7, 2011

P157RXX-0144 (2009 VW Jetta) - VIN Ex. 6 TO BE PICKED UP July 6, 2011

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 7/5/2011 2:27:03 PM
Subject: RE: In-use vehicles scheduled for next week
[parameters form P157RXX-0144](#) **Ex. 6** [xlsx](#)
[parameters form P156RXX-0091](#) **Ex. 6** [xlsx](#)
[fuel_drain.pdf](#)
sebastian.berenz@vw.com

Hello Lynn,

Attached is the data for both cars you will pull in this week.

Let me know when the cars will be in your lab and we come and check them out.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, June 30, 2011 10:18 AM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P156RXX-0091 (2009 VW Jetta) - VIN Ex. 6 to be picked up July 7, 2011

P157RXX-0144 (2009 VW Jetta) - VIN Ex. 6 BE PICKED UP July 6, 2011

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 7/28/2011 2:58:52 PM
Subject: In-use vehicles Touareg
[parameters form P121RXX-0016.xlsx](#)
[Touareg MY05_fuel_drain.pdf](#)
[Touareg road leveler mechanism.pdf](#)
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hello Lynn,

Sorry for responding so late.

Attached you will find the parameter sheet for the car for next week. We will check the car in and I will contact John White to find an appointment.

P121RXX-0016 (2005 VW/Touareg) - VIN# **Ex. 6**

<<parameters form_P121RXX-0016.xlsx>>

Also I attach two more documents.

One explains the fuel drain and the canister loading. We already discussed that with the guys in the shop and they have a cable from us to activate the pumps.

<<Touareg MY05_fuel_drain.pdf>>

For the one car with the adjustable air suspension, I created another sheet that shows you how to setup the vehicle for the dyno.

<<Touareg road leveler mechanism.pdf>>

If you have any further questions, please do not hesitate to contact me.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Mon 8/1/2011 8:59:09 PM
Subject: FW: In-use vehicles Touareg - P121RXX-0016 (2005 VW/Touareg)
[parameters form P121RXX-0016.xlsx](#)
[Touareg MY05 fuel drain.pdf](#)
[Touareg road leveler mechanism.pdf](#)
sebastian.berenz@vw.com
<http://www.volkswagen.com>
sebastian.berenz@vw.com
<http://www.volkswagen.com>

Hello Lynn,

I just received your email with the Touareg parameter sheet for tomorrow.

Please see my mail from last week. It should contain the parameters for this car.

Also, I will be in your lab tomorrow after lunch and check the Touareg in.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian
Sent: Thursday, July 28, 2011 10:59 AM
To: 'Lynn Sohacki'
Subject: In-use vehicles Touareg

Hello Lynn,

Sorry for responding so late.

Attached you will find the parameter sheet for the car for next week. We will check the car in and I will contact John White to find an appointment.

P121RXX-0016 (2005 VW/Touareg) - VIN#

Ex. 6

<<parameters form_P121RXX-0016.xlsx>>

Also I attach two more documents.

One explains the fuel drain and the canister loading. We already discussed that with the guys in the shop and they have a cable from us to activate the pumps.

<<Touareg MY05_fuel_drain.pdf>>

For the one car with the adjustable air suspension, I created another sheet that shows you how to setup the vehicle for the dyno.

<<Touareg road leveler mechanism.pdf>>

If you have any further questions, please do not hesitate to contact me.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Tue 1/17/2012 12:45:11 PM
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

The Bugatti reference is a copy / paste error.

We will send a correction as soon as possible.

Thanks,
Mike

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 13, 2012 3:55 PM
To: Giles, Michael
Subject: Re: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Dear Mr. Giles,

Thank you for the ORVR application below. I have a few questions before I forward the application to my team members: there are several references to Bugatti in the application. Is this family identical to a Bugatti family? Items 3 and 4 specifically mention Bugatti. What is the connection with Bugatti and this VW evap family?

Thanks for your answers.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/09/2012 08:13 AM
Subject: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

I was asked by my colleague (Bob Hart) to send you copies of our ORVR submissions. The attachment was recently submitted to Jim Snyder through Verify.

Please call me if you have any questions about this.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

[attachment "CBI_DVWXR0110PHE_RFA_ORV_R00.PDF" deleted by Lynn
Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA;Robert Peavyhouse/AA/USEPA/US@EPA[]; obert Peavyhouse/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Tue 1/17/2012 1:11:20 PM
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L
CBI_DVWXR0110PHE_RFA_ORV_R01.pdf

Hi Lynn,

My apologies for the confusion. I made corrections to the attached document, which was also submitted to VERIFY.

After discussion with our information provider I corrected the brand and model year on pages 2 and 3.

Regards
Mike

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 13, 2012 3:55 PM
To: Giles, Michael
Subject: Re: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Dear Mr. Giles,

Thank you for the ORVR application below. I have a few questions before I forward the application to my team members: there are several references to Bugatti in the application. Is this family identical to a Bugatti family? Items 3 and 4 specifically mention Bugatti. What is the connection with Bugatti and this VW evap family?

Thanks for your answers.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/09/2012 08:13 AM
Subject: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

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I was asked by my colleague (Bob Hart) to send you copies of our ORVR submissions. The attachment was recently submitted to Jim Snyder through Verify.

Please call me if you have any questions about this.

Regards,
Mike

Michael Giles
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Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

[attachment "CBI_DVWXR0110PHE_RFA_ORV_R00.PDF" deleted by Lynn
Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 1/17/2012 9:08:50 PM
Subject: Assistance with identifying vehicles for test family R104
sebastian.berenz@vw.com

Hello Lynn,

Here is what I found out:

· R104/0077 - 2009 Audi A5 Coupe, VIN# **Ex. 6** 9AD XV03.23LC LEV II - LEV / Tier 2 -
BIN 5

· R104/0049 - 2009 Audi A4 Sedan, VIN# **Ex. 6** 9AD XV03.23LC LEV II - LEV / Tier 2 -
BIN 5

· R104/0080 - 2009 Audi A5 Coupe , VIN# **Ex. 6** AD XV03.23LC LEV II - LEV / Tier 2 -
BIN 5

· R104/0061 - 2009 Audi A5 Coupe, VIN# **Ex. 6** 9AD XV03.23LC LEV II - LEV / Tier 2 -
BIN 5

Would be great if you let us know when a car comes in, so that we can inspect it.

Let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 1/25/2012 4:12:03 PM
Subject: RE: In-use vehicles scheduled for next week

parameters form	Ex. 6	R104RXX-0061.xlsx
parameters form		R104RXX-0077.xlsx
parameters form		R104RXX-0049.xlsx
test procedure 3.2		

Hello Lynn,

Please see attached the parameter sheets for the vehicles you are going to get tested next week. We will assist with explaining the drain and refill procedure when we are at your lab to inspect the vehicles.

The procedure is similar to the 3.1 Audis we have done before.

Let me know if there are any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 25, 2012 9:42 AM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R104RXX-0049 (2009 Audi/A4) - VIN#	Ex. 6	1000 Veh. Pick up on 1/31/12 (Tuesday)
------------------------------------	--------------	--

R104RXX-0077 (2009 Audi/A5) - VIN#

Ex. 6

0900 Veh. Pick up on 2/1/12 (Wednesday)

R104RXX-0061 (2009 Audi/A5) - VIN#

1000 Veh. Pick up on 2/2/12 (Thursday)

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

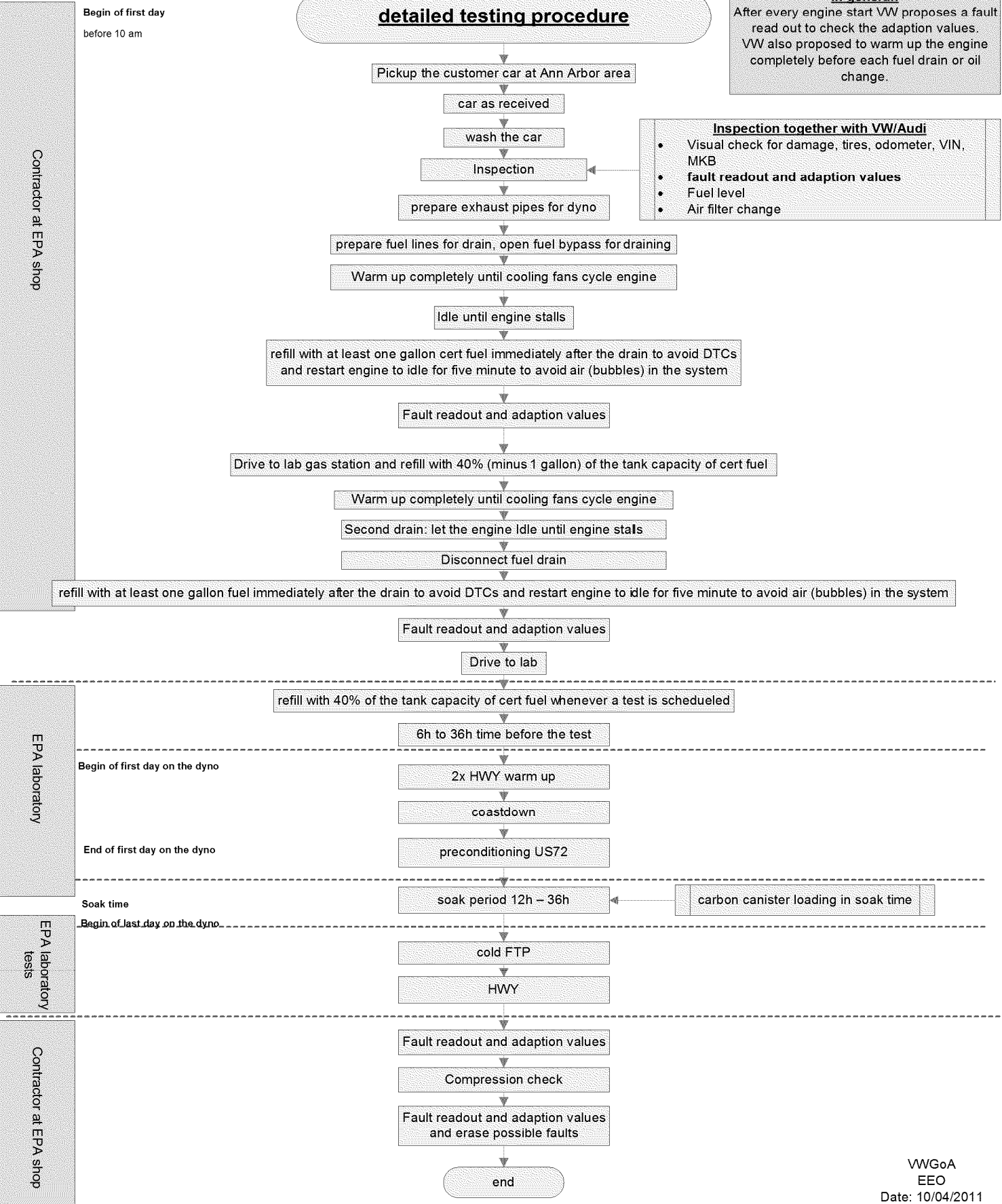
(See attached file: parameters form.xlsx)

detailed testing procedure

In general:
After every engine start VW proposes a fault read out to check the adaption values. VW also proposed to warm up the engine completely before each fuel drain or oil change.

Inspection together with VW/Audi

- Visual check for damage, tires, odometer, VIN, MKB
- **fault readout and adaption values**
- Fuel level
- Air filter change



To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Giles, Michael"
Sent: Wed 2/1/2012 9:35:14 PM
Subject: RE: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L
CBI_DVWXR0110PHE_RFA_ORV_R02.PDF

Hello Lynn,

As we discussed, please find attached a revised submission for our Non-Integrated ORVR for the MY 2013 Jetta Hybrid. I hope this revision answers your questions.

This revised document was submitted to VERIFY today.

Please contact me if you have further questions.

Regards,
Mike

-----Original Message-----

From: Lynn Sohacki [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 13, 2012 3:55 PM
To: Giles, Michael
Subject: Re: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Dear Mr. Giles,

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Thanks for your answers.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Giles, Michael" <michael.giles@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/09/2012 08:13 AM
Subject: VW Group - ORVR Information MY2013 Jetta Hybrid 1.4L

Hello Lynn,

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Regards,
Mike

Michael Giles
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United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

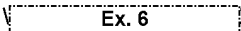
[attachment "CBI_DVWXR0110PHE_RFA_ORV_R00.PDF" deleted by Lynn
Sohacki/AA/USEPA/US]

To: Bernd Liebner/AA/USEPA/US@EPA;Lynn Sohacki/AA/USEPA/US@EPA[]; ynn
Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 2/2/2012 3:14:18 PM
Subject: picture of wrong test group
[IMG_9004.jpg](#)
sebastian.berenz@vw.com

Hello Lynn,

Hello Bernd,

Attached you will find the picture we took of the wrong emission label on the Audi A4 of EPA Surveillance
Program 9AD XV03.23LC - 3.2l AVS MY 2009.

· _R104RXX-0049_MY2009_Audi_A4

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

AUDI AG



VEHICLE EMISSION CONTROL INFORMATION

CONFORMS TO REGULATIONS: 2009 MY

U.S. EPA: T2B5 LDV	OBD: CA II	FUEL: GASOLINE
CALIFORNIA: LEV II PC	OBD: CA II	FUEL: GASOLINE

NO ADJUSTMENTS NEEDED. DFI/2TWC/2HQ2S(2)
GROUP: 9ADXT03.23LC
EVAP: 9ADXR0140B8Q

06E 010 504 S

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 2/2/2012 9:40:35 PM
Subject: Accepted: Meeting with Audi to discuss mislabeling issue
winmail.dat

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 9/2/2011 1:24:45 PM
Subject: RE: Notification of a new in-use surveillance test class P-184

Hello Lynn,

Thank you very much for letting me know about the program.
Whenever the cars are ready to be inspected, just let me know.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, September 01, 2011 4:58 PM
To: Berenz, Sebastian
Subject: Notification of a new in-use surveillance test class P-184

Dear Sebasitan,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: NOTIF-P-184-Audi.doc)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 10/4/2011 2:44:03 PM
Subject: RE: In-use vehicles scheduled for next week
sebastian.berenz@vw.com

Hello Lynn,

I reviewed the data for the car you want to bring in tomorrow.

As far as you informed us, you wanted to test cars of the test group 9AD XV03.23LC with a 3.2l engine MY2009.

The vehicle with VIN: **Ex. 6** is a 2.0l Audi A4 MY2009 and wouldn't match into this test group. That is what our dealer network tells me.

Please verify the VIN and let me know if I have wrong data. Let me know if you need anything from our side.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, September 28, 2011 2:45 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN#

Ex. 6

hcoming on 10/5/11 (Wednesday) @ 0830

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister

preferred fuel drain method

any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 10/5/2011 1:22:47 PM
Subject: Fw: In-use vehicles scheduled for next week
sebastian.berenz@vw.com

Hi, Sebastian.

We got the car and discovered that the test group is actually 9AD XV02.03UB. Apparently, the customer read the label incorrectly. Sorry for the confusion.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/05/2011 09:21 AM -----

From: Lynn Sohacki/AA/USEPA/US
To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
Date: 10/04/2011 01:40 PM
Subject: RE: In-use vehicles scheduled for next week

Hello, Sebastian.

I apologize for the mix-up. We sent out invitations to owners of the 3.2l test group and no owners of that vehicle responded. However, we did get responses from owners of vehicles in test group 9AD XV02.034B so we decided to test those instead. Unfortunately, I forgot to make a note to myself and I neglected to notify you. I'm sorry about that. The VIN is correct and your dealer network is correct, it is a 2.0l vehicles.

Again, I apologize for the error.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/04/2011 10:45 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

I reviewed the data for the car you want to bring in tomorrow.

As far as you informed us, you wanted to test cars of the test group 9AD XV03.23LC with a 3.2l engine MY2009.

The vehicle with VIN **Ex. 6** is a 2.0l Audi A4 MY2009 and wouldn't match into this test group. That is what our dealer network tells me.

Please verify the VIN and let me know if I have wrong data. Let me know if you need anything from our side.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

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Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, September 28, 2011 2:45 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN **Ex. 6** Incoming on 10/5/11 (Wednesday) @ 0830

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 10/5/2011 2:33:46 PM
Subject: RE: In-use vehicles scheduled for next week
[parameters form.xlsx](#)
[test procedure with fuel drain.pdf](#)
http://elsaweb.vwoa.na.vwg_elsaweb_ctr_TPLdisplayContent_src_42_633026_a151124.pdf
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>

Hello Lynn,

See attached the parameter sheet for the vehicle you bring in today.

<<parameters form.xlsx>>

Also I attached a fuel drain procedure. This is similar to the one we had with the 3.1l confirmatory program.

Since we have a start adaptation it is necessary to make sure that we are not influencing it in a negative way though a drain not matching strategy.

<<test procedure with fuel drain.pdf>>

Also I could see that this vehicle: **Ex. 6** has an open service campaign on the Camshaft Adjuster. Just for your information, we take a look at the car anyways and I suggest we test it as it is and decide later.

<<http://elsaweb.vwoa.na.vwg_elsaweb_ctr_TPLdisplayContent_src_42_633026_a151124.pdf>>

We will be at your lab after lunch today and explain everything to the URS guys.

Let me know if you have any questions.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 05, 2011 9:23 AM

To: Berenz, Sebastian

Subject: Fw: In-use vehicles scheduled for next week

Hi, Sebastian.

We got the car and discovered that the test group is actually

9AD XV02.03UB. Apparently, the customer read the label incorrectly.

Sorry for the confusion.

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/05/2011 09:21 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 10/04/2011 01:40 PM

Subject: RE: In-use vehicles scheduled for next week

Hello, Sebastian.

I apologize for the mix-up. We sent out invitations to owners of the 3.2l test group and no owners of that vehicle responded. However, we did get responses from owners of vehicles in test group 9AD XV02.034B so we decided to test those instead. Unfortunately, I forgot to make a note to myself and I neglected to notify you. I'm sorry about that.

The VIN is correct and your dealer network is correct, it is a 2.0l vehicles.

Again, I apologize for the error.

Regards,

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Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

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9ADXV03.23LC with a 3.2l engine MY2009.

The vehicle with VIN: **Ex. 6** a 2.0l Audi A4 MY2009 and
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E-Mail: sebastian.berenz@vw.com

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 28, 2011 2:45 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN# V **Ex. 6** Incoming
on 10/5/11 (Wednesday) @ 0830

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preferred fuel drain method

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ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

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Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

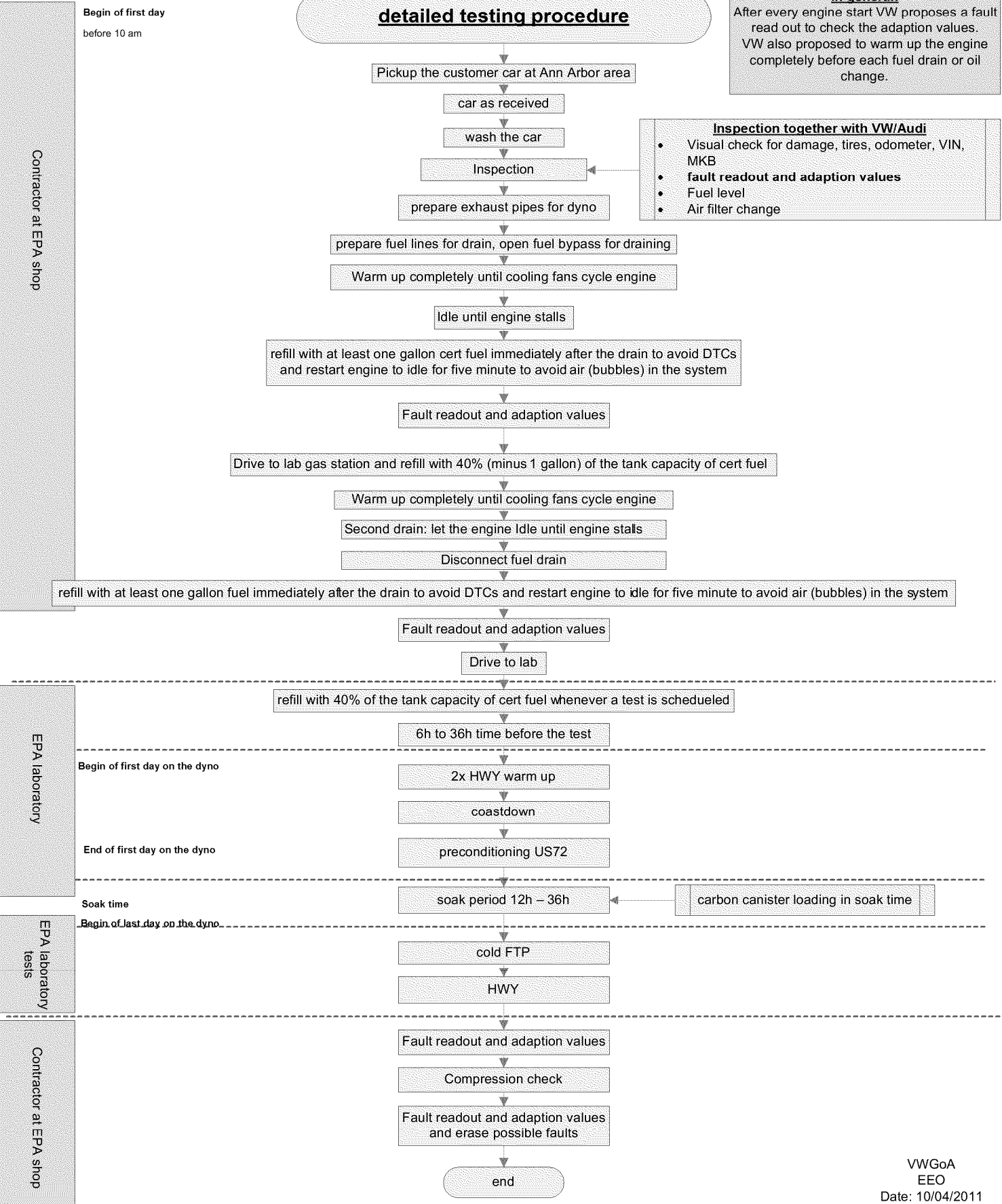
(See attached file: parameters form.xlsx)

detailed testing procedure

In general:
After every engine start VW proposes a fault read out to check the adaption values. VW also proposed to warm up the engine completely before each fuel drain or oil change.

Inspection together with VW/Audi

- Visual check for damage, tires, odometer, VIN, MKB
- **fault readout and adaption values**
- Fuel level
- Air filter change



Technical Service Bulletin



UPDATE - Camshaft Adjuster (LNVW)

15 11 24 2026802/2 August 3, 2011. Supersedes Technical Service Bulletin Group 15 number 11 – 23 dated July 5, 2011 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Audi A4	2009	9A045334 – 9A243268 9N005846 – 9N078573	2.0L TFSI
Audi A4	2010	AA003650 – AA027812 AN000217 – AN024840	
Audi A5	2010	AA000475 – AA030526	
Audi A5 Cabriolet	2010	AN004797 – AN007225	

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Service</i> (Revised Step 6)
1	7/5/2011	Original publication

This RVU has been proactively released to prevent the following condition from occurring in the vehicle:

2.0 T Engine camshaft adjuster replacement.

This Required Vehicle Update (RVU) is in effect until removed.

Vehicle must meet all of the following criteria:

- Procedure is valid only for vehicles that show the 15D6 code in the ElsaWeb Campaign/Action Information screen on the day of repair.
- Vehicle must be within the Limited New Vehicle Warranty.
- Procedure must be performed within the allotted time frame stated in this Technical Service Bulletin.
- Procedure must be performed on applicable vehicles in dealer inventory prior to sale.

Technical Background

On Audi vehicles with 2.0L TFSI engines built within a specific period, it is possible that the non-return valve on the camshaft adjuster (bearing saddle) may break. As a result, fragments of the non-return valve can enter the lubrication system.

Technical Service Bulletin



Production Solution

Not applicable.

Service

- Please notify customers who have taken delivery of one of the affected vehicles when the vehicles are next in the workshop.
- Please ensure that all affected vehicles are checked and repaired during the next service visit. Make a note of the required campaign on the workshop order *before* it is signed by the customer.
- If it is omitted to perform the work required for the campaign during a workshop visit, notify the customer about the campaign immediately (registered mail with advice of receipt).
- Pass on the information to your new and used car sales departments so that the vehicles affected are checked and, if necessary, repaired immediately.

Longitudinal engine:

1. Pull off engine cover panel (Figure 1, arrows).

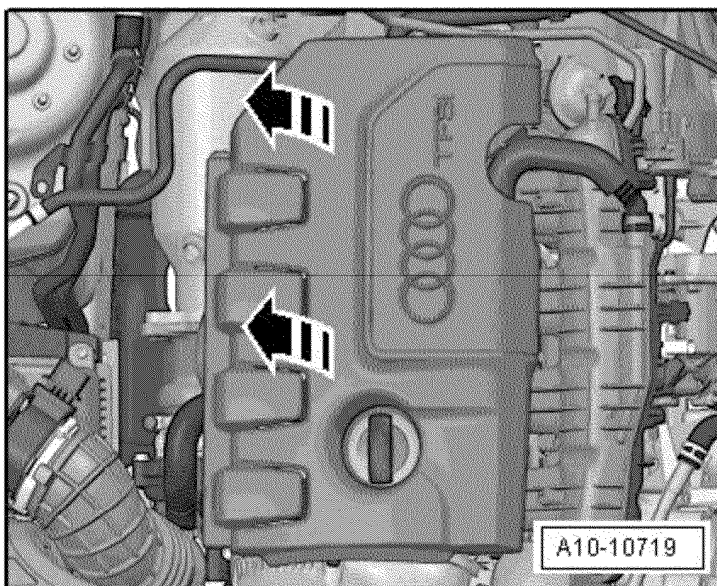


Figure 1. Engine cover.

2. Detach connector from camshaft control valve (Figure 2, 1)
3. Remove bolts (4 total) (Figure 2, arrows) and detach camshaft control valve.

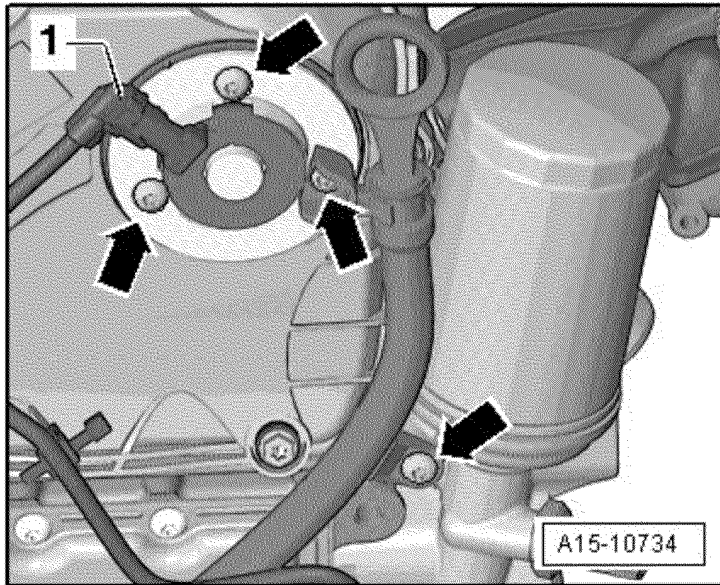


Figure 2. (1) Camshaft control valve.



Tip: Catch escaping oil with a cloth.

4. Remove wire harness from timing chain cover (Figure 3).

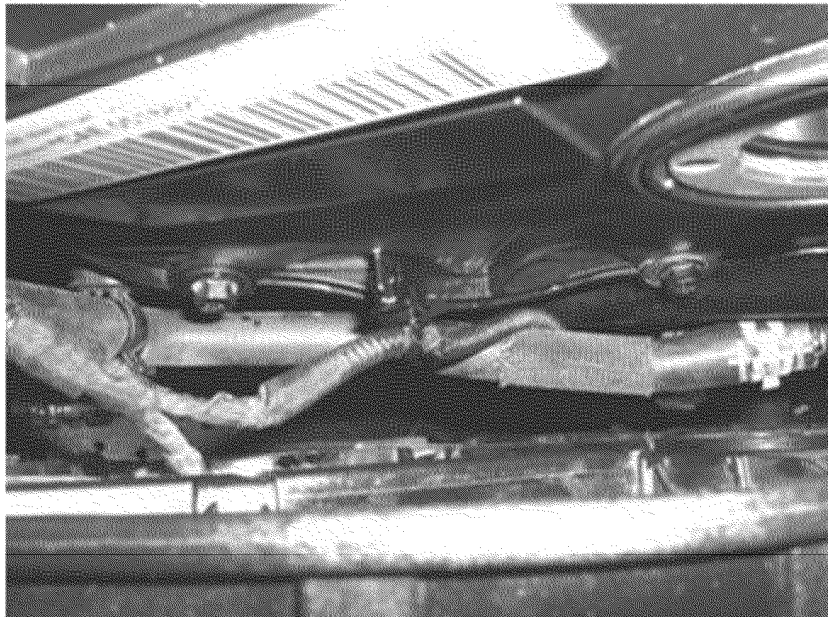


Figure 3. Wire harness.

5. Unscrew bolts in order (Figure 4, 1-5) and remove timing chain cover.

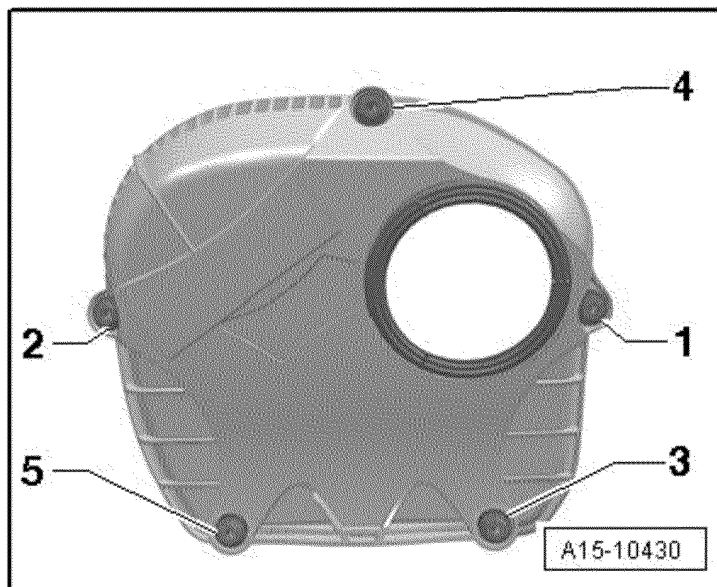


Figure 4. Bolts.



Note:

The control valve has a left-hand thread.

6. Unscrew control valve in direction indicated by arrow (clockwise) using assembly tool **T10352/1** or **T10352**.

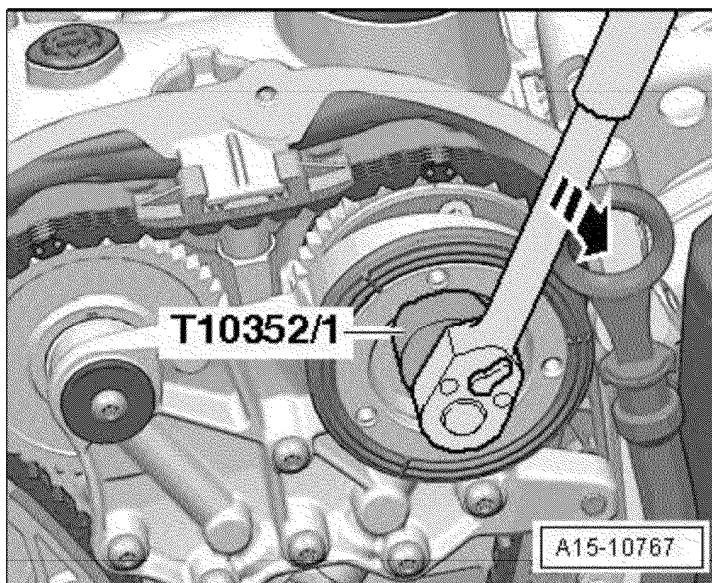


Figure 5. Tool, T10352/1.



Tip: Catch escaping oil with a cloth.

7. Remove bolts. (7 total)

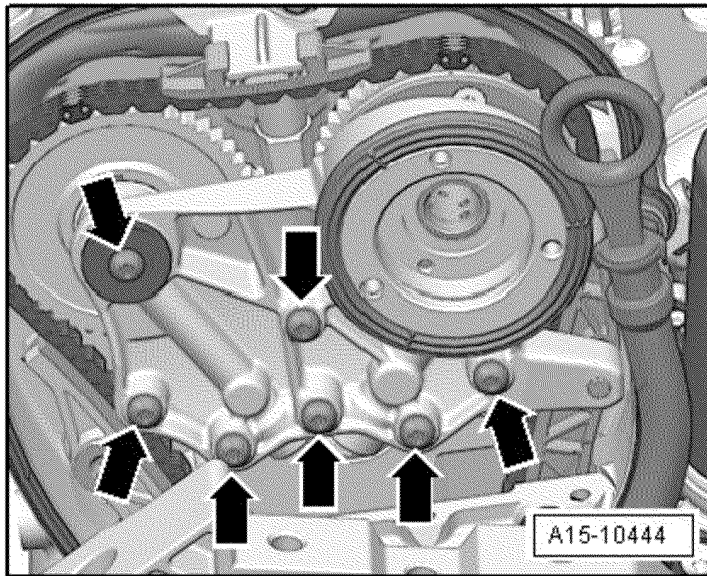


Figure 6. Bolts.

8. Place cloth under bracket (bearing saddle) to catch escaping oil and any parts of non-return valve that may drop out.

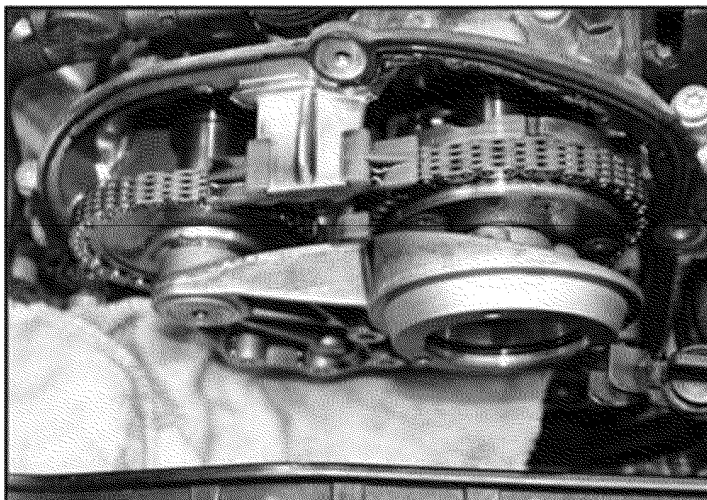


Figure 7. Cloth underneath bracket (bearing saddle).



Note:

If the camshaft is damaged, follow the procedure detailed in TSB 2023107.

9. Replace bracket (bearing saddle).

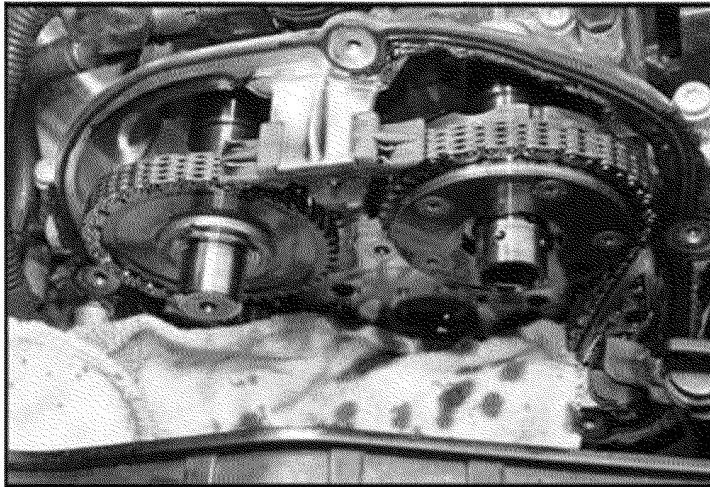


Figure 8. Bracket (bearing saddle).



Tip: Lubricate bearing surface with oil before installing.

Installation is carried out in the reverse order; note the following:

1. Replace 1 and reinstall 2 and 3:

Tightening torques:

(Figure 9, 1) 20 Nm + 90° (M8) -
Replace bolt

(Figure 9, 2) 35 Nm - Control valve
(Left-hand thread!)

(Figure 9, 3) 9 Nm - Bolt

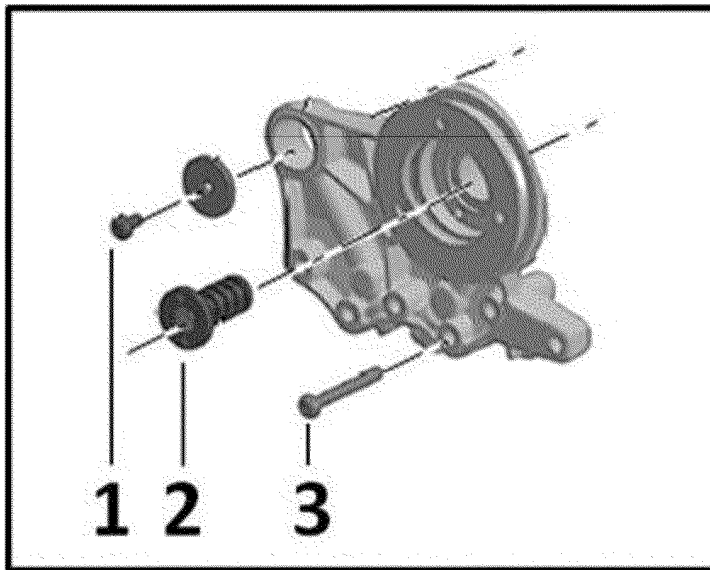


Figure 9. (1) Replace bolt. (2) Control valve. (3) Bolt.

2. Renew seal and O-ring only if damaged. Lubricate with engine oil before installing.

Tighten bolts in the sequence shown.
(Figure 10, 1 to 5).

Tightening torque:

9 Nm

Reconnect wire harness.

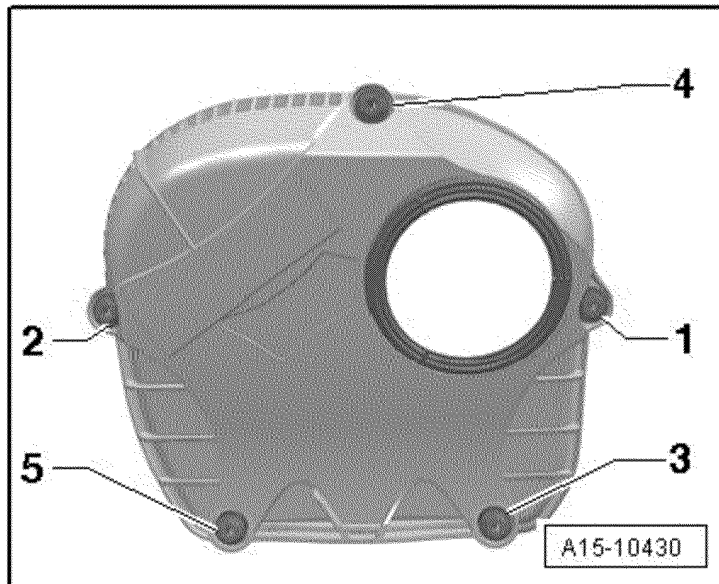


Figure 10. Tighten bolts in order shown.

3. Reinstall bolts.

Tightening torque:

9 Nm

Connect camshaft control valve
(Figure 11, 1) N205.

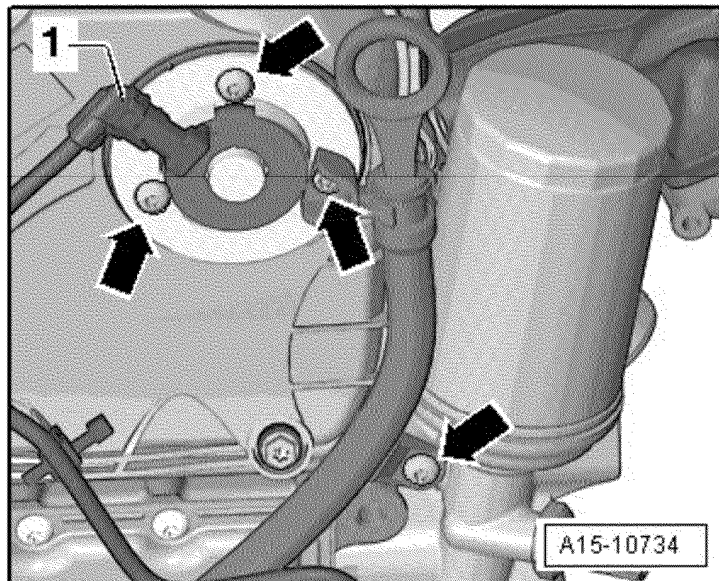
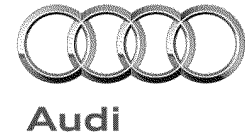


Figure 11. Tighten camshaft control valve.

Technical Service Bulletin



Warranty

Required Vehicle Update Technical Bulletin Time Requirements/ Reimbursement	To ensure prompt and proper payment, be sure to immediately enter the applicable reimbursement code listed below upon completion of the repair work. Claims will be paid only for vehicles that show the 15D6 code in the ElsaWeb Campaign/Action Information screen on the day of repair.			
15D6 Saga Claim Entry Procedure Check ElsaWeb to determine whether RVU 15D6 is open. Service No.: 15D6 Damage Code: 0099 Parts Manufacturer - Removed part: 002 Claim Type Sold vehicle = 7 10 Unsold vehicle = 7 90 Saga Accounting Instructions				
Criteria ID		Repair operation	Labor Operation Number	TU
20	8F, 8K, 8T	Replace camshaft adjuster	1584 55 99	100 TU
All criteria must be claimed. There is no reimbursement for vehicle wash or loaner vehicle. If the vehicle is outside of the specified warranty period, the customer has the option to pay for the repair. <i>If the customer agrees to pay for the repair:</i> Fax the information to (248) 754-5093 and provide VIN, applicable Service Number, Customer Info, Dealer Number and Date. <i>If the customer does not agree to pay for the repair:</i> Fax the information to (248) 754-5093 and provide VIN, applicable Service Number, Customer Info, Dealer Number and Date.				

Technical Service Bulletin



Additional Required Vehicle Update Technical Service Bulletins	Some of the affected vehicles may be involved in additional Required Vehicle Update Technical Service Bulletins. Please check your ElsaWeb Campaign/Action Information screen so that any <i>additional required work can be done simultaneously</i> .
Required Vehicle Update Technical Service Bulletin Verification	For verification, <i>always</i> check the ElsaWeb Campaign/Action Information screen. The ElsaWeb system is the <i>only</i> binding inquiry and verification system; other systems are not valid and <i>may result in non-payment</i> of a claim.
Help for Claim Input	For questions regarding claim input, contact the Warranty Helpline. Please do <i>not</i> contact the Campaign Helpline regarding claim input.
Required Customer Notification	Inform your customer in writing by recording on the Repair Order any and all work that was conducted on the vehicle, including any and all updates completed under this Required Vehicle Update Technical Service Bulletin.

Required Parts and Tools

Part Number	Part Description	Quantity
06H 103 144 J	Bearing saddle	1
06H 103 483 C	Seal	1, if damaged.
06H 103 483 D	Seal	1, if damaged.
N 105 724 03	Socket head bolt M8x16	1

- Properly destroy and dispose of removed parts in accordance with all state and local requirements, unless otherwise indicated and/or requested through SAGA.
- If you have exhausted your allocated parts and you require additional parts for vehicles affected by this RVU but have exceeded your Upper Order Limit, please submit your requests for additional parts via email to upperorderlimits@audi.com. Be sure to include the affected VINs with your order. Prior to submitting your request, ensure that each vehicle has the 15D6 code open in ElsaWeb. Your order will be reviewed and processed accordingly.

Additional Information

The following Technical Service Bulletin(s) may be necessary to complete this procedure:

- TSB 2023107, *01 MIL on, noise from timing chain (DTC P001600)*

All parts and service references provided in this RVU are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 10/6/2011 2:35:31 PM
Subject: RE: In-use vehicles scheduled for next week
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>
<http://www.volkswagen.com>
<mailto:Sohacki.Lynn@epamail.epa.gov>

Hi, Sebastian.

I will need to know the total canister volume for this vehicle in order to test. I apologize for the inconvenience.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/05/2011 10:35 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

See attached the parameter sheet for the vehicle you bring in today.

<<parameters form.xlsx>>

Also I attached a fuel drain procedure. This is similar to the one we had with the 3.1l confirmatory program.

Since we have a start adaptation it is necessary to make sure that we are not influencing it in a negative way though a drain not matching strategy.

<<test procedure with fuel drain.ndf>>

Also I could see that this vehicle **Ex. 6** has an open service campaign on the Camshaft Adjuster. Just for your information, we take a look at the car anyways and I suggest we test it as it is and decide later.

<<http://elsaweb.vwoa.na.vwg_elsaweb_ctr_TPLdisplayContent_src_42_633026_a151124.pdf>>

We will be at your lab after lunch today and explain everything to the URS guys.

Let me know if you have any questions.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 05, 2011 9:23 AM

To: Berenz, Sebastian

Subject: Fw: In-use vehicles scheduled for next week

Hi, Sebastian.

We got the car and discovered that the test group is actually 9AD XV02.03UB. Apparently, the customer read the label incorrectly.

Sorry for the confusion.

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/05/2011 09:21 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 10/04/2011 01:40 PM

Subject: RE: In-use vehicles scheduled for next week

Hello, Sebastian.

I apologize for the mix-up. We sent out invitations to owners of the 3.2l test group and no owners of that vehicle responded. However, we did get responses from owners of vehicles in test group 9AD XV02.034B so we decided to test those instead. Unfortunately, I forgot to make a note to myself and I neglected to notify you. I'm sorry about that. The VIN is correct and your dealer network is correct, it is a 2.0l vehicles.

Again, I apologize for the error.

Regards,

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/04/2011 10:45 AM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

I reviewed the data for the car you want to bring in tomorrow.

As far as you informed us, you wanted to test cars of the test group

9AD XV03.23LC with a 3.2l engine MY2009.

The vehicle with VIN: [Ex. 6] is a 2.0l Audi A4 MY2009 and wouldn't match into this test group. That is what our dealer network tells me.

Please verify the VIN and let me know if I have wrong data. Let me know if you need anything from our side.

Thank you very much.

Best regards

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 28, 2011 2:45 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN# [Ex. 6] incoming on 10/5/11 (Wednesday) @ 0830

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include

explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*

- preferred method for loading the canister

- preferred fuel drain method

- any special starting procedures

- ABS disabling instructions

- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

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(See attached file: parameters form.xlsx) [attachment "parameters form.xlsx" deleted by Lynn

Sohacki/AA/USEPA/US] [attachment "test procedure with fuel drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

[attachment "http___elsaweb.vwoa.na.vwg_elsaweb_ctr_TPLdisplayContent_src_42_633026_a151124.pdf"

deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 10/6/2011 5:42:14 PM
Subject: RE: In-use vehicles scheduled for next week
[mime.htm](#)
[parameters form.xlsx](#)
sebastian.berenz@vw.com
<http://www.v>
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What you want to do is either put a battery charger on it while store it open or close the car and keep the key away from the vehicle.

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[attachment

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We will be at your lab after lunch today and explain everything to the URS guys.

Let me know if you have any questions.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

☐☐Before you print it, think about your responsibility and commitment to

the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov
[mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 05, 2011 9:23 AM

To: Berenz, Sebastian

Subject: Fw: In-use vehicles scheduled for next week

Hi, Sebastian.

We got the car and discovered that the test group is actually

9ADXV02.03UB. Apparently, the customer read the label incorrectly.

Sorry for the confusion.

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/05/2011 09:21 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 10/04/2011 01:40 PM

Subject: RE: In-use vehicles scheduled for next week

Hello, Sebastian.

I apologize for the mix-up. We sent out invitations to owners of the 3.2l test group and no owners of that vehicle responded. However, we

did get responses from owners of vehicles in test group 9AD XV02.034B so

we decided to test those instead. Unfortunately, I forgot to make a note to myself and I neglected to notify you. I'm sorry about that.

The VIN is correct and your dealer network is correct, it is a 2.0l

vehicles.

Again, I apologize for the error.

Regards,

Lynn Sohacki

Environmental Protection Agency

734-214-4851

734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/04/2011 10:45 AM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

I reviewed the data for the car you want to bring in tomorrow.

As far as you informed us, you wanted to test cars of the test group

9ADXV03.23LC with a 3.2l engine MY2009.

The vehicle with VIN: **Ex. 6** is a 2.0l Audi A4 MY2009 and

wouldn't match into this test group. That is what our dealer network tells me.

Please verify the VIN and let me know if I have wrong data. Let me know

if you need anything from our side.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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to

the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov
[mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 28, 2011 2:45 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled

for next week.

P184RXX-0012 (2009 Audi/A4 Quattro) - VIN# **Ex. 6** , Incoming

on 10/5/11 (Wednesday) @ 0830

Please use the new attached form to send testing information to me for

these vehicles before pick-up. Return the attached form in excel format

so that the values may be automatically transferred to our testing

network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*

- preferred method for loading the canister

- preferred fuel drain method

- any special starting procedures

- ABS disabling instructions

- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency

(734)214-4851

(734)214-4869 fax

(See attached file: parameters form.xlsx) [attachment "parameters form.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "test procedure with fuel drain.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

[attachment

"http___elsaweb.vwoa.na.vwg_elsaweb_ctr_TPLdisplayContent_src_42_633026_a151124.pd
deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 10/19/2011 7:16:33 PM
Subject: RE: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hello Lynn,

Attached you will find the test data for next week vehicle.

Let me know if you have any questions.

Do you have any test results from the first car we tested? (P184RXX-0012)

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, October 19, 2011 3:02 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P185RXX-0003 (2009 Audi/A4 Quattro) - VIN# Ex. 6 10/26/11
(Wednesday) 0900 Veh. pick up

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 10/19/2011 7:20:49 PM
Subject: RE: In-use vehicles scheduled for next week

Thanks, Sebastian.

P184-0012 is supposed to test tomorrow.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 10/19/2011 03:16 PM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test data for next week vehicle.

Let me know if you have any questions.

Do you have any test results from the first car we tested? (P184RXX-0012)

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
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<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 19, 2011 3:02 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P185RXX-0003 (2009 Audi/A4 Quattro) - VIN# **Ex. 6** 10/26/11
(Wednesday) 0900 Veh. pick up

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

[attachment "parameters form.xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Wed 10/19/2011 7:23:09 PM
Subject: RE: In-use vehicles scheduled for next week

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, October 19, 2011 3:21 PM
To: Berenz, Sebastian
Subject: RE: In-use vehicles scheduled for next week

Thanks, Sebastian.

P184-0012 is supposed to test tomorrow.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/19/2011 03:16 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test data for next week vehicle.

Let me know if you have any questions.

Do you have any test results from the first car we tested?
(P184RXX-0012)

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 19, 2011 3:02 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

P185RXX-0003 (2009 Audi/A4 Quattro) - VIN# **Ex. 6** 10/26/11
(Wednesday) 0900 Veh. pick up

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)
[attachment "parameters form.xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Tue 11/22/2011 11:08:37 PM
Subject: RE: Notification of a new in-use surveillance test class

Hello Lynn,

Thank you very much for letting me know.
Please inform me when the first car comes in and I will check the car in.

I have another question concerning the 2.0l Audi test group you tested.
I still haven't heard anything about the last car that you tested:

Ex. 6

P185RXX-0003 My2009 Audi A4

Do you know if this one passed?

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Tuesday, November 22, 2011 3:59 PM
To: Berenz, Sebastian
Subject: Notification of a new in-use surveillance test class

Dear Sebastian,

Attached is a letter that was sent to your company announcing the selection of an EPA in-use surveillance test class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: NOTIF-R-104-Audi.pdf)

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 1/17/2012 7:58:24 PM
Subject: Assistance with identifying vehicles for test family R104

Hi, Sebastian.

We are having a difficult time identifying vehicles for class R104. We received positive responses from owners of these vehicles but I'm having a hard time determining the test group to which these vehicles belong. Would you please let me know the test groups for these vehicles?

Thank you,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

R104/0077 - 2009 Audi A5, VIN# V

R104/0049 - 2009 Audi A4, VIN# V

R104/0080 - 2009 Audi A5, VIN# V

R104/0061 - 2009 Audi A5, VIN# V

Ex. 6

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Tue 1/17/2012 9:15:11 PM
Subject: Re: Assistance with identifying vehicles for test family R104
sebastian.berenz@vw.com

Hi, Sebastian.

We will let you know the week before the cars come in so that you can attend the maintenance.

Thanks for your help!

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 01/17/2012 04:08 PM
Subject: Assistance with identifying vehicles for test family R104

Hello Lynn,

Here is what I found out:

· R104/0077 - 2009 Audi A5 Coupe, VIN# BIN 5	AD XV03.23LC LEV II - LEV / Tier 2 -
· R104/0049 - 2009 Audi A4 Sedan, VIN# BIN 5	AD XV03.23LC LEV II - LEV / Tier 2 -
· R104/0080 - 2009 Audi A5 Coupe , VIN# BIN 5	AD XV03.23LC LEV II - LEV / Tier 2 -
· R104/0061 - 2009 Audi A5 Coupe, VIN# BIN 5	AD XV03.23LC LEV II - LEV / Tier 2 -

Ex. 6

Would be great if you let us know when a car comes in, so that we can inspect it.
Let me know if you have any questions.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 1/25/2012 2:42:24 PM
Subject: In-use vehicles scheduled for next week
[parameters form.xlsx](#)

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

R104RXX-0049 (2009 Audi/A4) - VIN#	Ex. 6	1000 Veh. Pick up on 1/31/12 (Tuesday)
R104RXX-0077 (2009 Audi/A5) - VIN#		0900 Veh. Pick up on 2/1/12 (Wednesday)
R104RXX-0061 (2009 Audi/A5) - VIN#		1000 Veh. Pick up on 2/2/12 (Thursday)

Please use the new attached form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Thur 2/2/2012 3:19:56 PM
Subject: Re: picture of wrong test group
sebastian.berenz@vw.com

Thanks for the picture, Sebastian. Bernd told me that Audi is already working on this issue. Please let me know the details once they have been determined so we can discuss them.

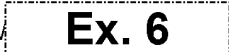
Thanks.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>
To: Bernd Liebner/AA/USEPA/US@EPA, Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/02/2012 10:14 AM
Subject: picture of wrong test group

Hello Lynn,
Hello Bernd,

Attached you will find the picture we took of the wrong emission label on the Audi A4 of EPA Surveillance Program 9AD XV03.23LC - 3.2l AVS MY 2009.

·  _R104RXX-0049_MY2009_Audi_A4

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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FAX: (248) 754-4207
E-Mail: sebastian.berenz@vw.com

<http://www.volkswagen.com>

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[attachment "IMG_9004.jpg" deleted by Lynn Sohacki/AA/USEPA/US]

To: Tom Ball/AA/USEPA/US@EPA[]
Cc: Arvon Mitcham/AA/USEPA/US@EPA;"Popa, Edward" [Edward.Popa@audi.com]; Popa, Edward" [Edward.Popa@audi.com]; ynn Sohacki/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; tephen Healy/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; om Anderson/AA/USEPA/US@EPA[]
From: "Krause, Norbert (VWoA)"
Sent: Mon 3/16/2009 10:32:47 PM
Subject: RE: 1.9L Diesels

Hello Tom,

I will be travelling to Germany tomorrow and I hope, that I have an answer for you after my return end of March.

I apologize for the delay.

Best regards,
Norbert

Norbert Krause
Director, Engineering and Environmental Office (EEO)
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4201
Mobile +1-248-705-5626
FAX +1-248-754-4207
norbert.krause@vw.com

-----Original Message-----

From: Ball.Tom@epamail.epa.gov [mailto:Ball.Tom@epamail.epa.gov]
Sent: Montag, 16. März 2009 17:03
To: Krause, Norbert (VWoA)
Cc: Mitcham.Arvon@epamail.epa.gov; Popa, Edward; Sohacki.Lynn@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Johnson, Stuart; Anderson.Tom@epamail.epa.gov
Subject: RE: 1.9L Diesels

Hello Norbert,

Can you tell me the status of the 2004 and 2006 models referenced in red below?

Tom

"Krause, Norbert
(VWoA)"
<Norbert.Krause@

To

vw.com> Tom Ball/AA/USEPA/US@EPA
Sent by: cc
"Krause, Norbert Arvon Mitcham/AA/USEPA/US@EPA,
(VWoA)" "Popa, Edward"
<Norbert.Krause@ <Edward.Popa@audi.com>, Lynn
vw.com> Sohacki/AA/USEPA/US@EPA, Stephen
Healy/AA/USEPA/US@EPA, "Johnson,
Received Date: Stuart" <Stuart.Johnson@vw.com>,
12/22/2008 04:06 Tom Anderson/AA/USEPA/US@EPA
PM Subject
Transmission RE: 1.9L Diesels
Date:
12/22/2008
04:06:56 PM

Dear Tom:

Thank you for your reply.

You have tested one 2005 car with the old software and with the modified software. The results of the modified software showed that we passed all limits. I assume your decision is that we can go ahead with our activity to do a flash action in the field. As soon as we have done all the paperwork (i.e. dealer and customer letters) we will let you know.

Regarding the 2004 and 2006 model years we need to have a bit more time to finally decide on a similar action. We have to verify the modified software with some vehicles. I expect an outcome later in January 2009.

Thank you for your cooperation.

I wish you and your team a Merry Christmas and a Happy New Year.

Best regards,
Norbert

Norbert Krause
Director, Engineering and Environmental Office (EEO) Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4201
Mobile +1-248-705-5626
FAX +1-248-754-4207
norbert.krause@vw.com

-----Original Message-----

From: Ball.Tom@epamail.epa.gov [mailto:Ball.Tom@epamail.epa.gov]

Sent: Freitag, 14. November 2008 09:56

To: Krause, Norbert (VWoA)

Cc: Mitcham.Arvon@epamail.epa.gov; Popa, Edward; Sohacki.Lynn@epamail.epa.gov;

Healy.Stephen@epamail.epa.gov; Johnson, Stuart; Anderson.Tom@epamail.epa.gov

Subject: RE: 1.9L Diesels

Norbert,

Our position is that if the 2004 and 2006 vehicles are identical calibrations, we don't need any more test data. We would consider them in the same class as far as recall is concerned, and should be included in the recall. However, if there are differences in the calibrations as they relate to this problem, then we would like to see test data.

Tom

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]; Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Reineke, Dennis" [Dennis.Reineke@vw.com]
From: "Popa, Edward"
Sent: Thur 4/23/2009 7:47:45 PM
Subject: RE: In-use vehicles scheduled for next week
[In-Use Parameters Form.xls](#)
[fuel_drain.pdf](#)

Hello Lynn,

Please find below the test information and parameters for the upcoming EPA In-Use Surveillance Test Program -Eng. Fam. 6VWXV01.9238 and for the vehicle M149RXX-0038 (2006 VW/Jetta):

Lab: NVFEL Ann Arbor,
Michigan
Engine Family: 6VWXV01.9238
Estimated Start Date: Week-ending May 8, 2008
Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: M148/M149 (low-mileage /
high-mileage)

- General Test Group Information:

Engine Fam.: 6VWXV01.9238
Concept: 1.9L / I4 (TDI-PD)
Em. Standard: InT2 - BIN 10
Sales Area: 50 States / Canada
Engine HP: 100 hp
Engine Code: BRM
Models in TG: Jetta
EVAP Fam.: n/a
EVAP Standard: n/a
of sold vehicles in TG: 38,221

- General Vehicle Group Information:

Tank Capacity 100% [l] 55 [l]
Tank Capacity 40% [l] 22 [l]
Tank Capacity 100% [gal] 14.53 [gal]
Tank Capacity 40% [gal] 5.81 [gal]
Canister Working Cap. [g] n/a [g]
Standard Tire Size 205/55 R16
Axle Ratio 3.389 - Manual / 3.333-
Automatic
Target road-load coef. 30.12 (F0) 0.1954 (F1)
0.0186 (F2) - Manual
35.07 (F0)
0.1809 (F1) 0.0193 (F2) - Automatic

- Model & VIN Specific Test Parameters: => see attached .xls spreadsheet

- VIN Specific Information:

(1) M149RXX-0038 (2006 VW/Jetta) -- vehicle pick up scheduled for 04/29/2009 (Wednesday) at ~09:30

VIN:

Ex. 6

Make/Model: Jetta TDI
Model Code: 1K2721
Exterior Color: PEARL GREEN MET.
Prod Date: 08/24/2006
In Service Date: 10/27/2006
Engine#: BRM 051515
Vehicle Source: Mexico

I will not be in office from April 29th until May 1st. If you schedule the inspection for this first vehicle during that time, please contact Dennis Reineke, he'll fill in for me for that time.

His extension is Tel: 248-754 - 4215 and email address:

Dennis.Reineke@vw.com.

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me. I'm available on my cell phone when I'm not in the office.

Thank you and best regards,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road
Auburn Hills, MI 48326, U.S.A.
Tel. +1 248 754 4211
Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
http://www.vw.com
http://www.audiusa.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, April 21, 2009 9:26 AM

To: Popa, Edward

Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

M149RXX-0038 (2006 VW/Jetta) - VIN# **Ex. 6** 0930 vehicle pick up on Wednesday (4/29/09)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: Tom Ball/AA/USEPA/US@EPA[]
Cc: Arvon Mitcham/AA/USEPA/US@EPA;"Popa, Edward" [Edward.Popa@audi.com]; Popa, Edward" [Edward.Popa@audi.com]; ynn Sohacki/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; tephen Healy/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; om Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Hennard, Mike" [mike.hennard@vw.com]
From: "Krause, Norbert (VWoA)"
Sent: Fri 4/24/2009 7:56:30 PM
Subject: RE: 1.9L Diesels

Hello Tom,

Now we have a final decision from our German colleagues. We are going to reflash the 2004 and 2006 models in the same manner. As soon as we have prepared all the paperwork we come back to you.

Have a nice weekend.

Best regards,

Norbert

-----Original Message-----

From: Ball.Tom@epamail.epa.gov [mailto:Ball.Tom@epamail.epa.gov]
Sent: Montag, 16. März 2009 17:03
To: Krause, Norbert (VWoA)
Cc: Mitcham.Arvon@epamail.epa.gov; Popa, Edward; Sohacki.Lynn@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Johnson, Stuart; Anderson.Tom@epamail.epa.gov
Subject: RE: 1.9L Diesels

Hello Norbert,

Can you tell me the status of the 2004 and 2006 models referenced in red below?

Tom

"Krause, Norbert
(VWoA)"
<Norbert.Krause@vw.com> To
Tom Ball/AA/USEPA/US@EPA
Sent by: cc
"Krause, Norbert Arvon Mitcham/AA/USEPA/US@EPA,
(VWoA)" "Popa, Edward"
<Norbert.Krause@vw.com> <Edward.Popa@audi.com>, Lynn
Sohacki/AA/USEPA/US@EPA, Stephen
Healy/AA/USEPA/US@EPA, "Johnson,
Received Date: Stuart" <Stuart.Johnson@vw.com>,
12/22/2008 04:06 Tom Anderson/AA/USEPA/US@EPA

PM
Transmission Subject
RE: 1.9L Diesels
Date:
12/22/2008
04:06:56 PM

Dear Tom:

Thank you for your reply.

You have tested one 2005 car with the old software and with the modified software. The results of the modified software showed that we passed all limits. I assume your decision is that we can go ahead with our activity to do a flash action in the field. As soon as we have done all the paperwork (i.e. dealer and customer letters) we will let you know.

Regarding the 2004 and 2006 model years we need to have a bit more time to finally decide on a similar action. We have to verify the modified software with some vehicles. I expect an outcome later in January 2009.

Thank you for your cooperation.

I wish you and your team a Merry Christmas and a Happy New Year.

Best regards,
Norbert

Norbert Krause
Director, Engineering and Environmental Office (EEO) Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4201
Mobile +1-248-705-5626
FAX +1-248-754-4207
norbert.krause@vw.com

-----Original Message-----

From: Ball.Tom@epamail.epa.gov [mailto:Ball.Tom@epamail.epa.gov]
Sent: Freitag, 14. November 2008 09:56
To: Krause, Norbert (VWoA)
Cc: Mitcham.Arvon@epamail.epa.gov; Popa, Edward; Sohacki.Lynn@epamail.epa.gov;
Healy.Stephen@epamail.epa.gov; Johnson, Stuart; Anderson.Tom@epamail.epa.gov
Subject: RE: 1.9L Diesels

Norbert,

Our position is that if the 2004 and 2006 vehicles are identical calibrations, we don't need any more test data. We

would consider them in the same class as far as recall is concerned, and should be included in the recall. However, if there are differences in the calibrations as they relate to this problem, then we would like to see test data.

Tom

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Reineke, Dennis" [Dennis.Reineke@vw.com]; ruce Garrison/AA/USEPA/US@EPA[]
From: "Popa, Edward"
Sent: Tue 5/5/2009 12:41:27 PM
Subject: RE: In-use vehicles scheduled for next week
[fuel_drain.pdf](#)
[02 In-Use Parameters Form.xls](#)
[03 In-Use Parameters Form.xls](#)

Hello Lynn,

Please find below the test information and parameters for the actual EPA In-Use Surveillance Test Program -Eng. Fam. 6VWXV01.9238 and for the vehicles M148RXX-0042 and M149RXX-0166:

Lab: NVFEL Ann Arbor,
 Michigan
 Engine Family: 6VWXV01.9238
 Estimated Start Date: Week-ending May 8, 2008
 Recall/Testing Representative: Lynn Sohacki
 Telephone Number: (734) 214-4851
 E-mail address: Sohacki.Lynn@epa.gov
 Class Numbers: M148/M149 (low-mileage / high-mileage)

- General Test Group Information:

Engine Fam.: 6VWXV01.9238
 Concept: 1.9L / I4 (TDI-PD)
 Em. Standard: InT2 - BIN 10
 Sales Area: 50 States / Canada
 Engine HP: 100 hp
 Engine Code: BRM
 Models in TG: Jetta
 EVAP Fam.: n/a
 EVAP Standard: n/a
 # of sold vehicles in TG: 38,221

- General Vehicle Group Information:

Tank Capacity 100% [l] 55 [l]
 Tank Capacity 40% [l] 22 [l]
 Tank Capacity 100% [gal] 14.53 [gal]
 Tank Capacity 40% [gal] 5.81 [gal]
 Canister Working Cap. [g] n/a [g]
 Standard Tire Size 205/55 R16
 Axle Ratio 3.389 - Manual / 3.333- Automatic
 Target road-load coef. 30.12 (F0) 0.1954 (F1)
 0.0186 (F2) - Manual
 35.07 (F0)
 0.1809 (F1) 0.0193 (F2) - Automatic

- Model & VIN Specific Test Parameters: => see attached .xls spreadsheet

- VIN Specific Information:

(2) M148RXX-0042 (2006 VW/Jetta) -- vehicle pick up scheduled for 05/05/2009 (Tuesday) at ~09:30

VIN: Ex. 6
Make/Model: Jetta TDI
Model Code: 1K2723
Exterior Color: PLATINUM GRAY
Prod Date: 03/06/2006
In Service Date: 05/20/2006
Engine#: BRM 037198
Vehicle Source: Mexico

(3) M149RXX-0166 (2006 VW/Jetta) -- vehicle pick up scheduled for 05/06/2009 (Wednesday) at ~07:30

VIN: Ex. 6
Make/Model: Jetta TDI
Model Code: 1K2721
Exterior Color: PLATINUM GRAY
Prod Date: 07/06/2006
In Service Date: 07/31/2006
Engine#: BRM 047933
Vehicle Source: Mexico

I talked on the phone with Bruce, and we planed to have the inspection for both vehicles on Wednesday Mai 6th at 12:30.

If you have any questions or need extra information for the procured vehicles please don't hesitate to contact me. I'm available on my cell phone when not in the office.

Thank you and best regards,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road
Auburn Hills, MI 48326, U.S.A.
Tel. +1 248 754 4211
Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
http://www.vw.com

<http://www.audiusa.com>

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, April 28, 2009 3:41 PM

To: Popa, Edward

Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

M148RXX-0042 (2006 VW/Jetta) - VIN# Ex. 6 0930 vehicle pick up on 5/5/09 (Tuesday)

M149RXX-0166 (2006 VW/Jetta) - VIN# Ex. 6 0730 vehicle pick up on 5/6/09 (Wednesday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Fuel drain for vehicle preconditioning

Instruction manual

powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 1 date: 04/07/2009 Autor.: Ratte phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

Vehicle preparation (for example: gasoline) ->diesel see page 7

1. Close the fuel line, mount a crimp pincer (yellow), see page 4.
2. Disconnect the fuel line from rail in the engine compartment.
3. Connect the T-piece between rail and fuel line with clips, see page 5.

Attention: Carefully check all clips in the fuel line before you start the engine or pump!

4. Open the fuel line, remove the crimp pincer.

Description of fuel drain (gasoline and diesel)

1. Change the original against a external prepared connector on the fuel pump.
2. Connect a drain line with a male connector at the quickconnector (QC).
3. Switch on the pump with external DC power supply (Voltage:12V/Current:20A).
4. After the fuel drain switch off the power supply.
5. Disconnect the drain line from the selfsealing female QC and close the QC with plug.

➤ Look at the following pictures

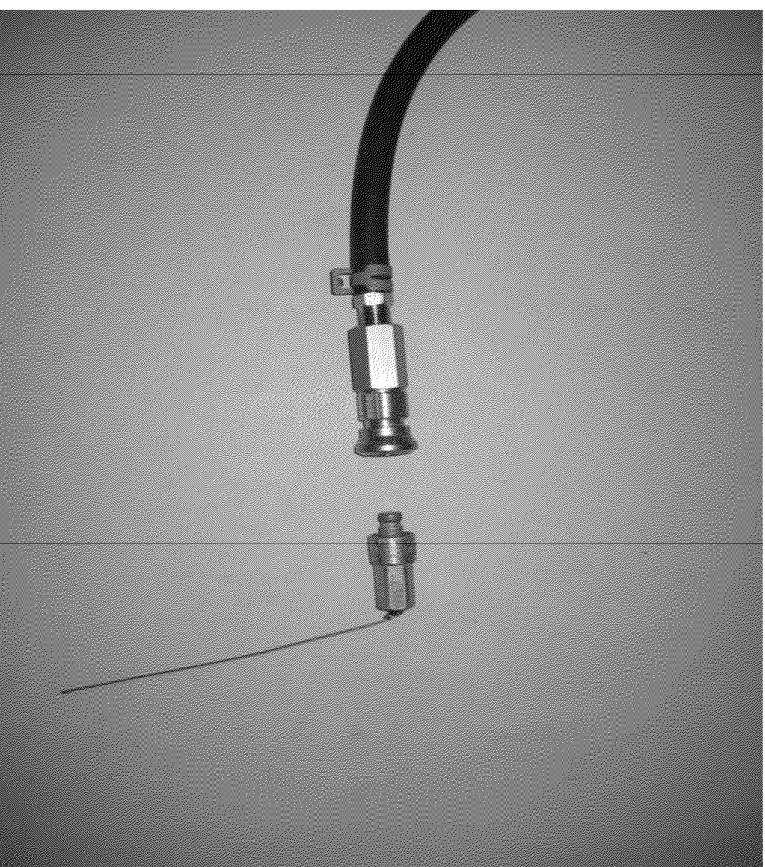
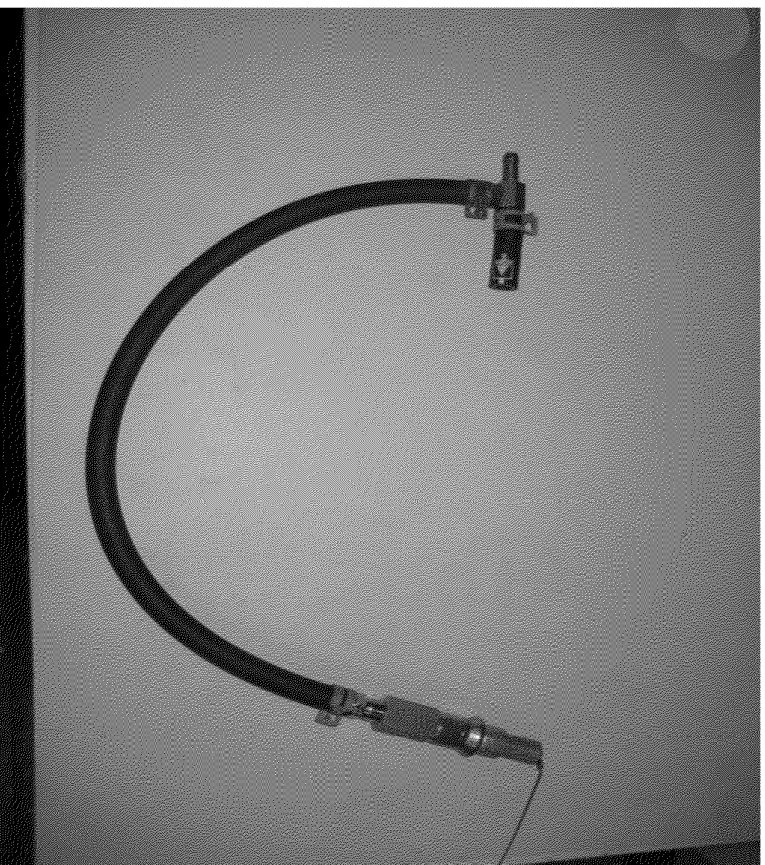
powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung



Fuel drain for vehicle preconditioning

T-piece for fuel draining with selfsealing connector and plug (swagelok QC6)



powertrain development

Aggregate-Testcenter ● Antrieb-Elektronik ● Antriebsstragmanangement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 3

date: 04/07/2009

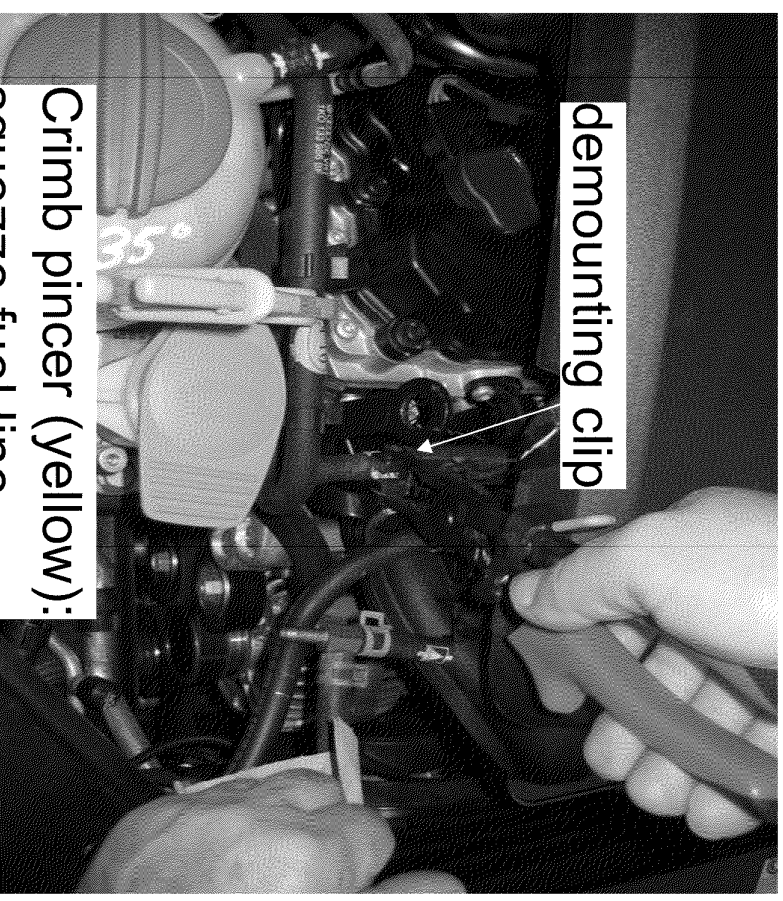
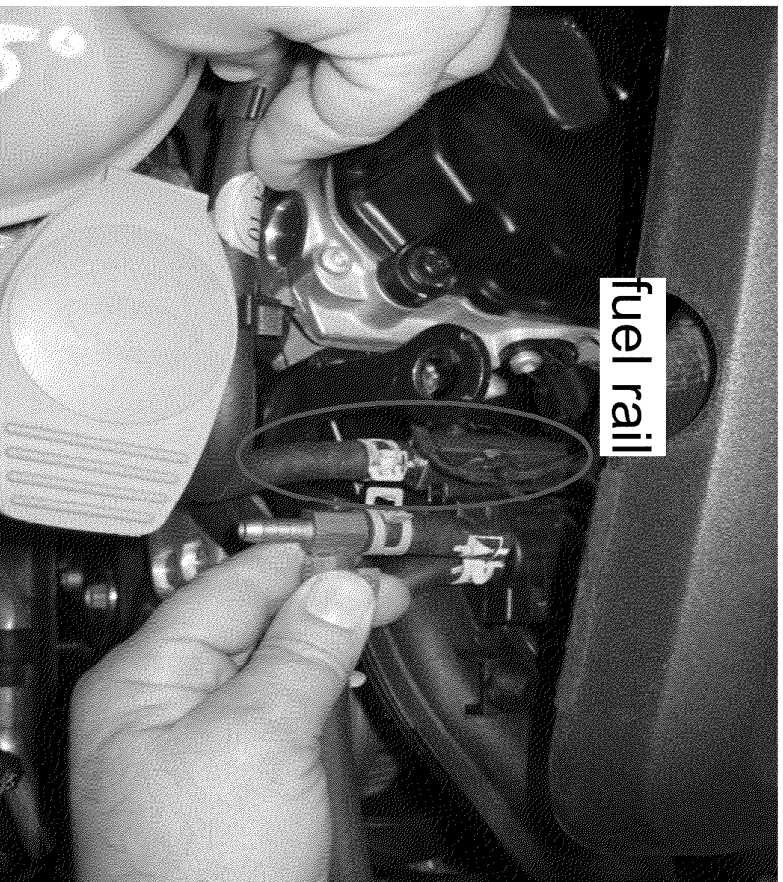
Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

gasoline vehicle: connection of T-piece in the fuel rail (engine compartment)



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstragmanagment ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 4

date: 04/07/2009

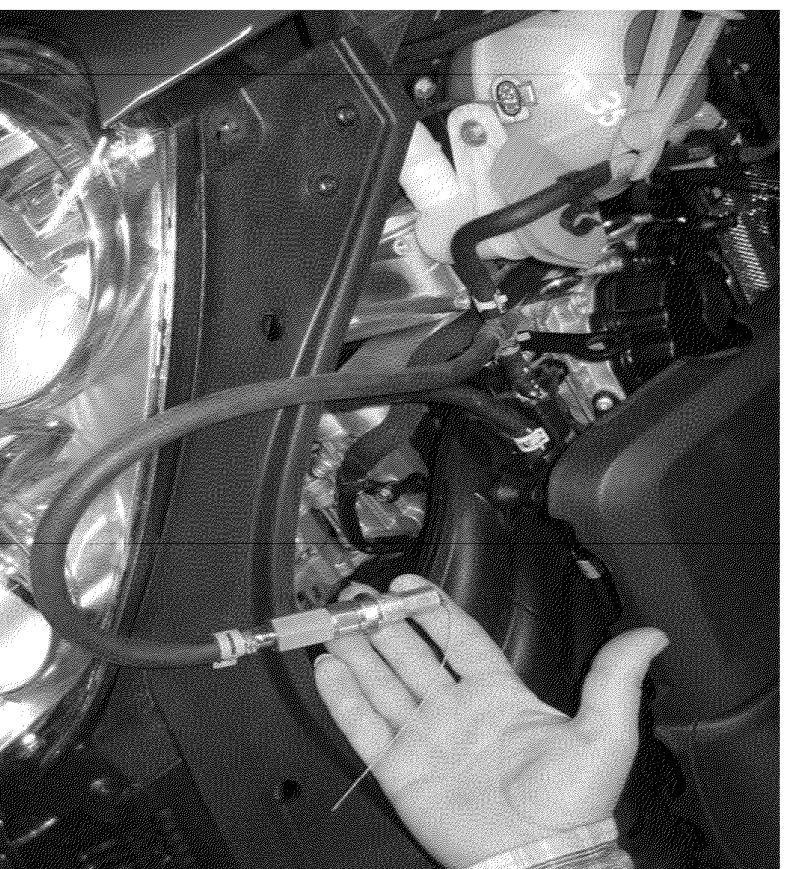
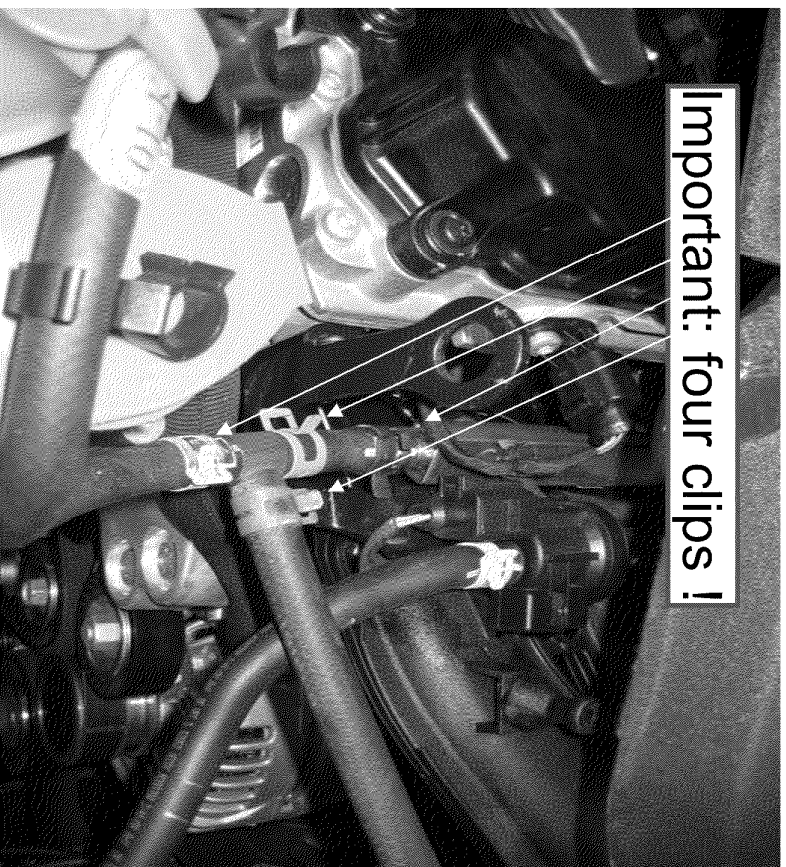
Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

gasoline vehicle: connection of T-piece in the fuel rail (engine compartment)



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 5

date: 04/07/2009

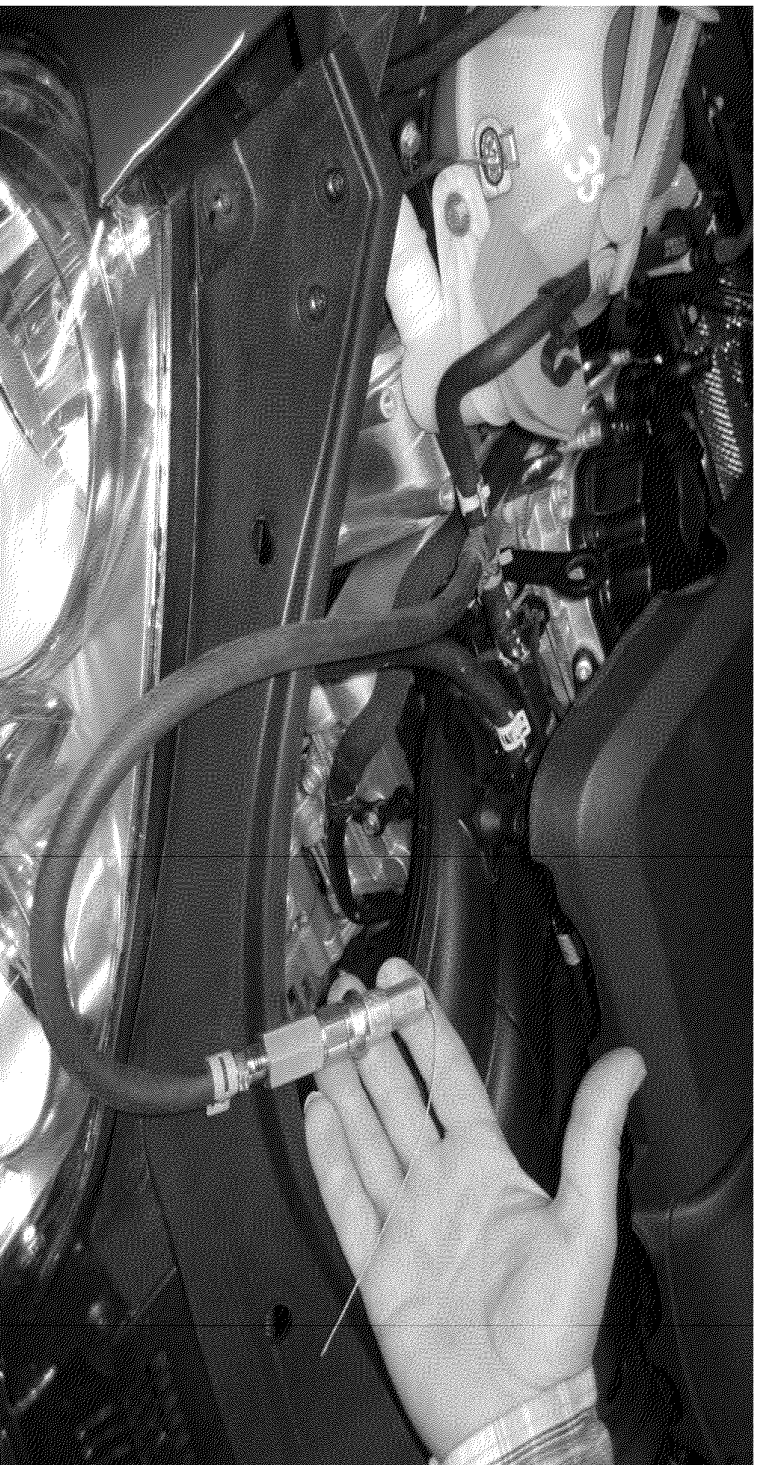
Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

gasoline vehicle: T-piece in the fuel rail (engine compartment) **Attention:** check all clips (four) in the fuel line before you start the engine !



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstragmanagment ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 6

date: 04/07/2009

Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

diesel vehicle: connection of T-piece in the fuel rail (engine compartment)



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstragmanagment ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 7

date: 04/07/2009

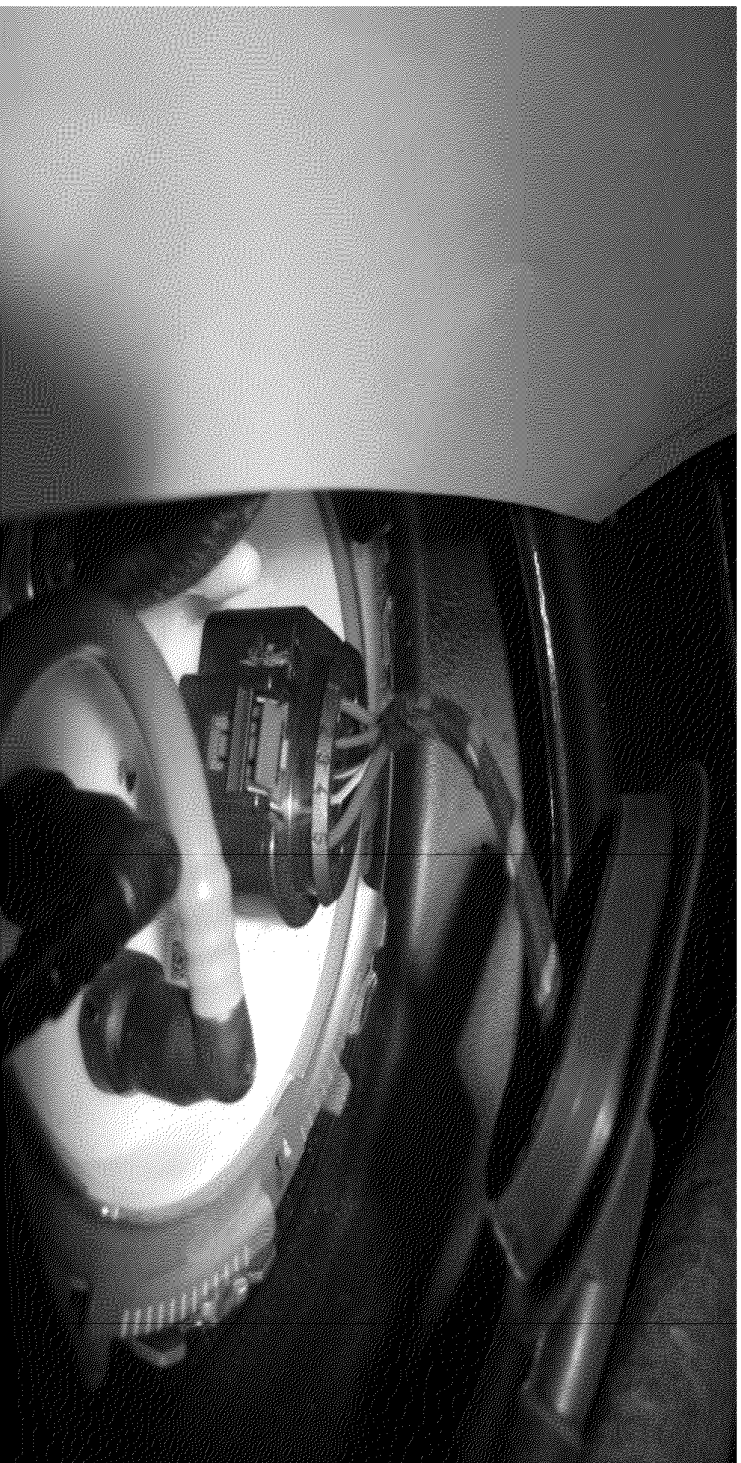
Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

Fuel pump, electrical connector, original part (rear seats, right hand side)



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 8

date: 04/07/2009

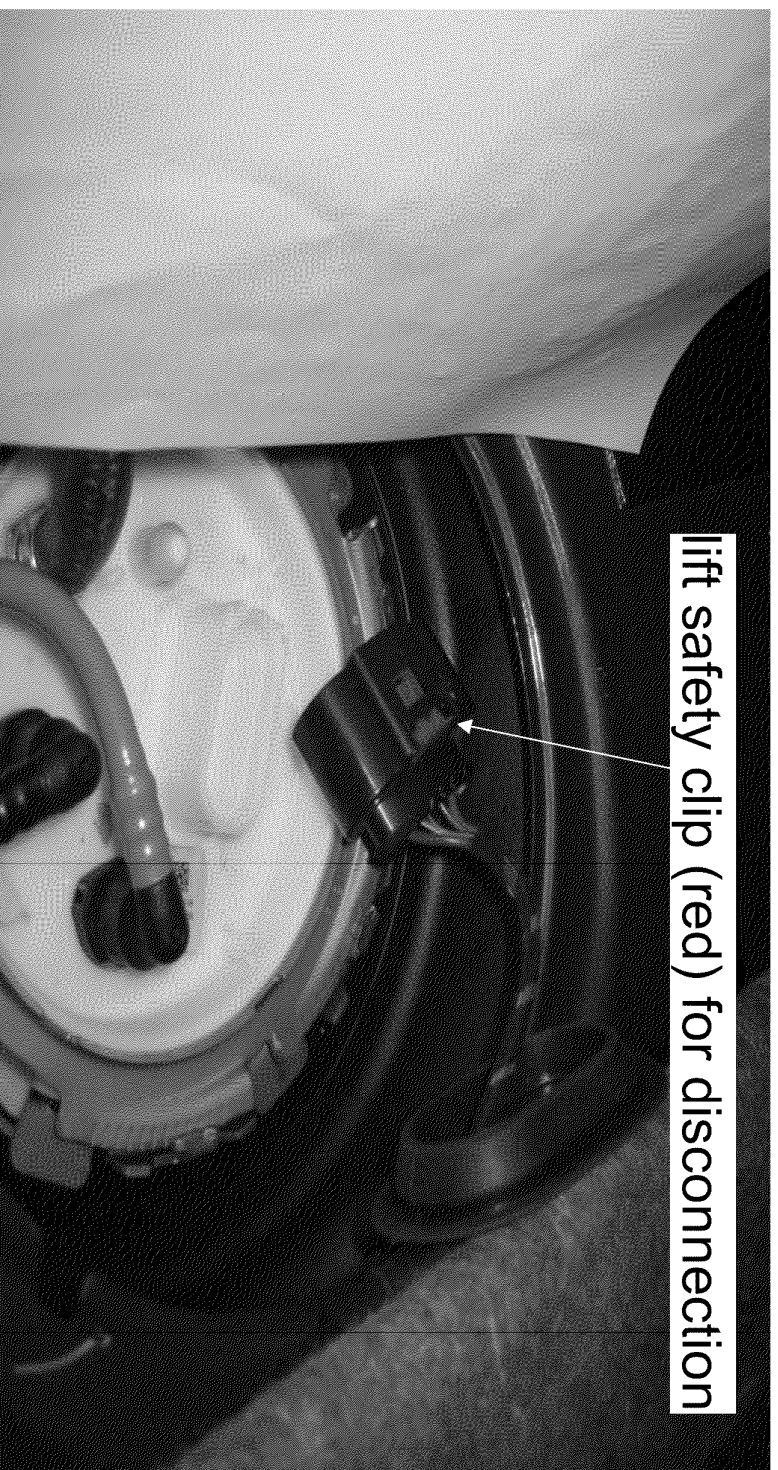
Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

Fuel pump, electrical connector, disconnect original part



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 9

date: 04/07/2009

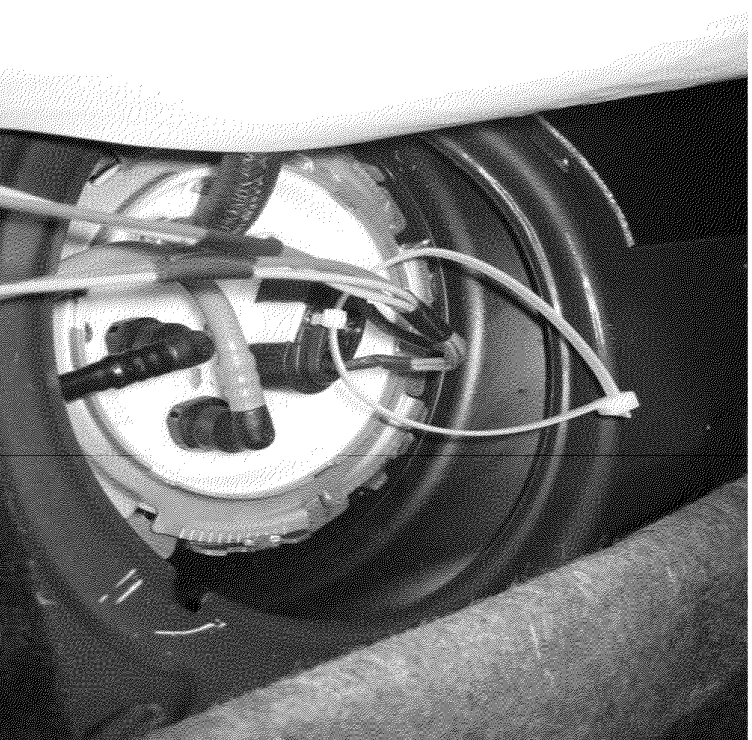
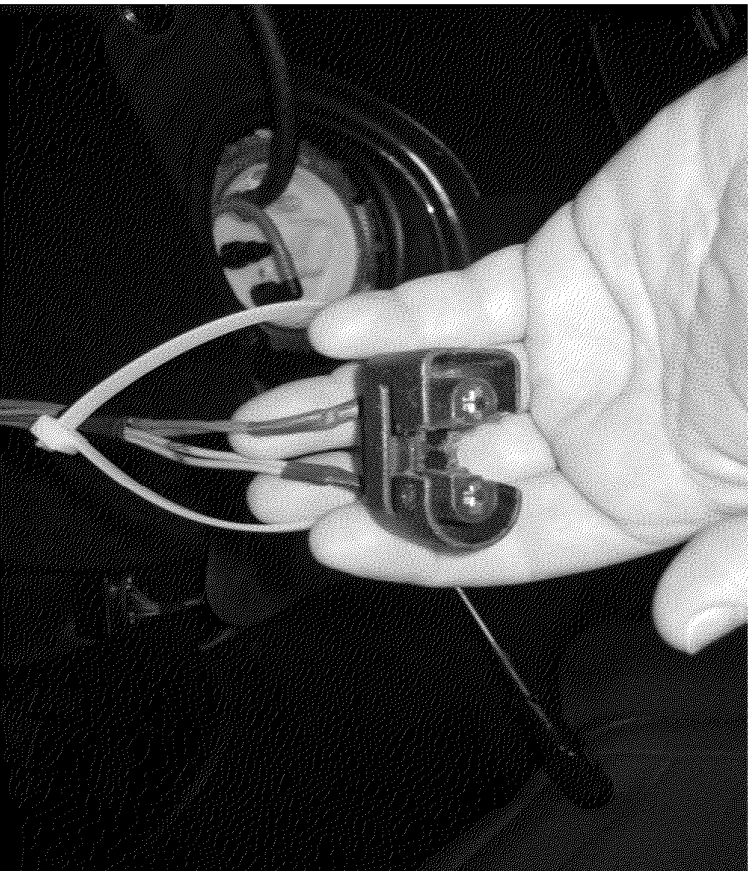
Autor.: Ratte

phone: +0049-5361-9-31763



Fuel drain for vehicle preconditioning

Fuel pump, external electrical connector with DC power supply (red wire = plus blue or brown wire = negative pole)



powertrain development

Aggregate-Testcenter ● Antriebs-Elektronik ● Antriebsstrangmanagement ● Dieselmotorenentwicklung ● Fahrzeugintegration Antrieb ● Getriebeentwicklung ● Ottomotorenentwicklung

page 10

date: 04/07/2009

Autor.: Ratte

phone: +0049-5361-9-31763



To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; Rhodes, Brian" [Brian.Rhodes@vw.com]
From: "Popa, Edward"
Sent: Mon 6/15/2009 7:53:46 PM
Subject: In-use vehicles scheduled for this week - Wednesday
[EPA 01 In-Use Parameters Form.xls](#)
[Q7 4.2Lcanisterloading.ppt](#)
[Fuel Drain Q7-V8FSI.ppt](#)

Hello Lynn,

Please find below and attached the test information and parameters for the upcoming EPA In-Use Surveillance Test Program -Eng. Fam. 7ADXT04.2358 and for the vehicle M158RXX-0124 (2007 Audi/Q7):

Lab: NVFEL Ann Arbor,
Michigan
Engine Family: 7ADXT04.2358
Estimated Start Date: Week-ending June 19, 2009
Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: M158/M159 (low-mileage / high-mileage)

- General Test Group Information:

Engine Fam.: 7ADXT04.2358
Concept: 4.2
Em. Standard: LEV II - BIN 5
Sales Area: 50 States / Canada
Engine HP: 350 hp
Engine Code: BAR
Models in TG: Audi Q7, Touareg
EVAP Fam.: 7ADXR0170358, 7ADXR0230276
EVAP Standard: LEV II - Tier 2
of sold vehicles in TG: 9,727

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me.

Thank you and best regards,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road

Auburn Hills, MI 48326, U.S.A.
Tel. +1 248 754 4211
Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
http://www.vw.com
http://www.audiusa.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, June 09, 2009 9:17 AM

To: Popa, Edward

Subject: In-use vehicles scheduled for next week

Hi Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

M158RXX-0124 (2007 Audi/Q7) - VIN# **Ex. 6** 0830 vehicle pick up on 6/17/09 (Wednesday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Disconnect to load canister here



Install load hose here



Load hose to station



Overflow open wheel well cover



Disconnect LDP hose



Connect hose for overflow to
station for 2g breakthrough



Fuel drain on V8FSI

- ▶ (1) pinch off hose to the high pressure fuel pump (system pressure apx. 6 bar)
- ▶ (2) start and run engine until it stops
- ▶ (3) connect T-piece
- ▶ (4) start and run engine until it stops

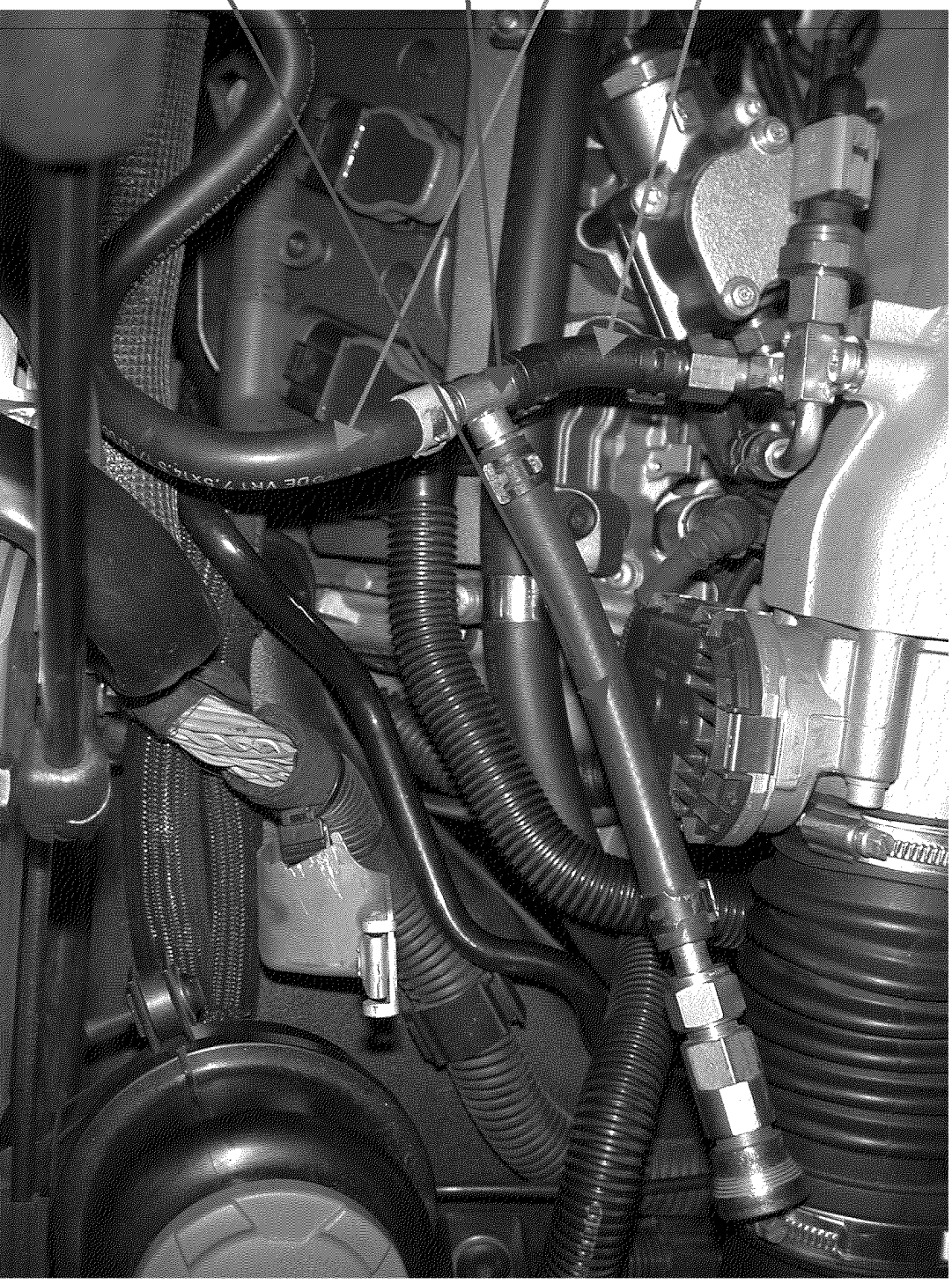
Fuel drain on V8FSI

fuel high pressure pump

hose to high pressure pump



Fuel drain on V8FSI



connection to
high pressure pump

T-piece

Fuel drain hose



To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
From: "Popa, Edward"
Sent: Mon 2/15/2010 11:05:15 PM
Subject: In-use vehicles scheduled for next week
[In-Use Parameters Form N116RXX-0088.xls](#)
[In-Use Parameters Form N116RXX-0174.xls](#)

Hello Lynn,

Please find below and attached the test information and parameters for the upcoming EPA In-Use Surveillance Test Program -Eng. Fam. 8AD XV03.1374 and for the vehicles N116RXX-0088 and N116RXX-0174 (2008 Audi/A6):

Lab: NVFEL Ann Arbor,
Michigan
Engine Family: 8AD XV03.1374
Estimated Start Date: Week-ending February 19, 2010
Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: N116 (low-mileage /
high-mileage)

- General Test Group Information:

Engine Fam.: 8AD XV03.1374
Concept: 3.1
Em. Standard: LEV II - BIN 5
Sales Area: 50 States / Canada
Engine HP: 255 hp
Engine Code: BKH
Models in TG: Audi A6 quattro / Audi A6 / Audi A4
/ A4 quattro / Audi A4 Cabriolet
EVAP Fam.: 8AD XR0140282
EVAP Standard: LEV II - Tier 2
of sold vehicles in TG: 15,085

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me.

Thank you and best regards,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road
Auburn Hills, MI 48326, U.S.A.

Tel. +1 248 754 4211
Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
http://www.vw.com
http://www.audiusa.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, February 11, 2010 7:46 AM
To: Popa, Edward
Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

N116RXX-0088 (2008 Audi/A6) - VIN# **Ex. 6** 2/16/10 0900
(Tuesday) Incoming

N116RXX-0174 (2008 Audi/A6) - VIN# **Ex. 6** 2/17/10
(Wednesday) 0900 pick up @ home

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed
in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include
explicit directions and, if necessary, pictures for:

*disabling traction control, stability control and any load
leveling the vehicle may have*
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to
our contractor, EG&G, and lab personnel. Paper copies or e-mails sent
directly to EG&G or lab personnel may result in incorrect information
being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
From: "Popa, Edward"
Sent: Wed 2/24/2010 7:01:52 PM
Subject: In-use vehicles scheduled for tomorrow - N116RXX-0051
[In-Use Parameters Form N116RXX-0051.xls](#)
[Anschlüsse 3.1FSI.pptx](#)

<<Anschlüsse 3.1FSI.pptx>> Hi Lynn,

Attached are the form and the instructions for the third vehicle in this program.
If you have any question, please let me know.

Have a nice day,
Edy

Edward-Fabian Popa
Manager In-Use Emission Compliance

Volkswagen Group of America, Inc.
Engineering and Environmental Office
3800 Hamlin Road
Auburn Hills, MI 48326, U.S.A.
Tel. +1 248 754 4211
Mobile: +1 248 881 4095
Fax: +1 248 754 4207
mailto:edward.popa@audi.com
<http://www.vw.com>
<http://www.audiusa.com>

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 17, 2010 2:50 PM
To: Popa, Edward
Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

N116RXX-0051 (2008 Audi/A6) - VIN# Ex. 6 0800 vehicle pick up on 2/25/10 (Thursday)

Please send the following to me for these vehicles before pick-up.
Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

- *disabling traction control, stability control and any load leveling the vehicle may have*
- preferred method for loading the canister
- preferred fuel drain method
- any special starting procedures
- ABS disabling instructions
- for flex-fuel vehicles, the fuel switch procedure

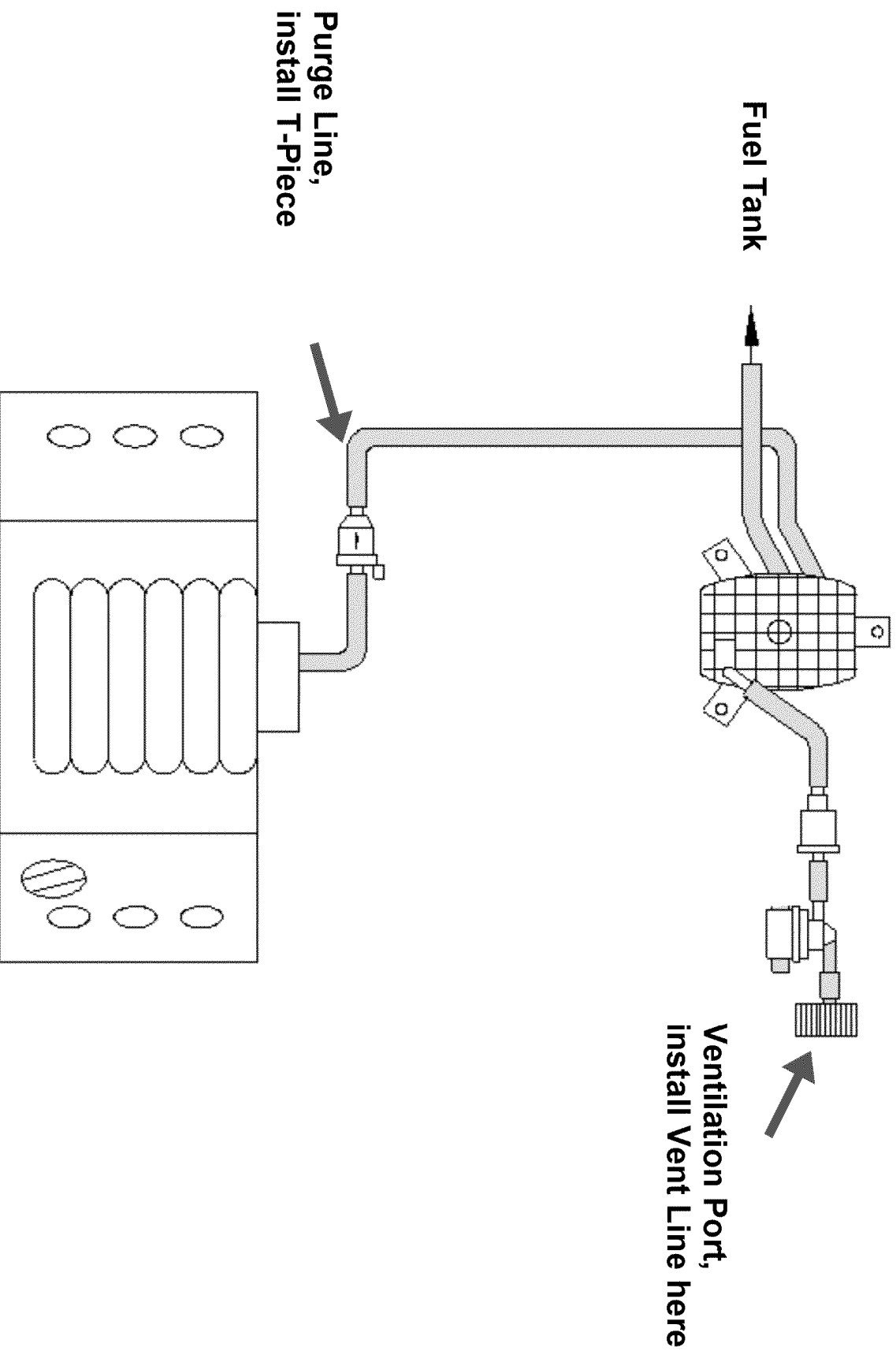
Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

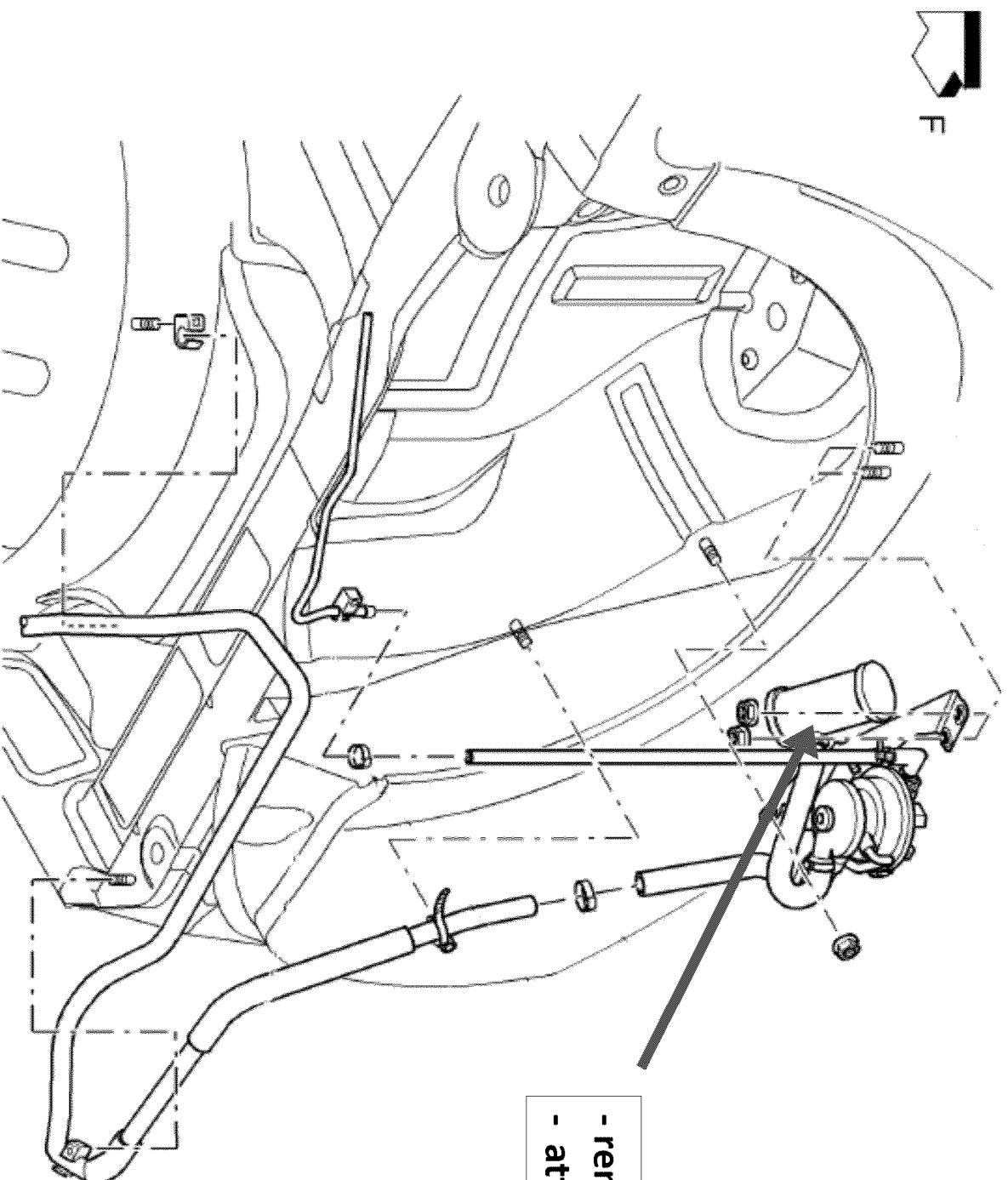
Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Structure of the Evap. System for Canister Loading/Purging

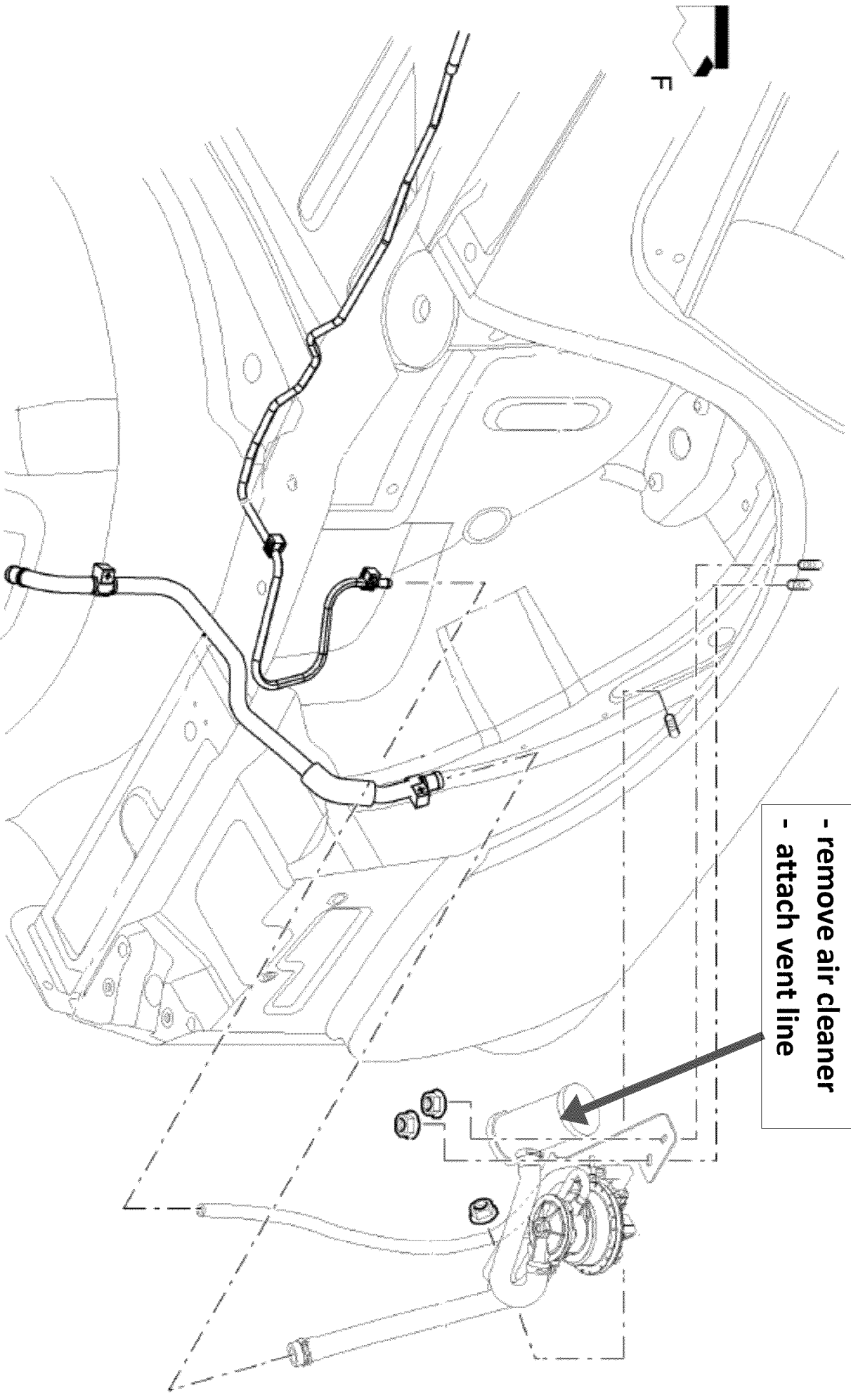


Audi A4, access to LDP Vent Port – rear left wheelhouse



- remove air cleaner
- attach vent line

Audi A6 access to LDP Vent Port – rear left wheelhouse



Engine Compartment



To: Robert.Hart@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 3/15/2010 5:42:22 PM
Subject: Fw: VW Group: Request for ORVR Approval
CBI_BADXR0155D4Q_RFA_ORVR_R00.PDF

Hi, Bob.

Since I almost never get onto Verify, please e-mail the ORVR file to me. After we complete the review, I will fax the cover sheet back to you with "Accepted and Reviewed" written on it. Manufacturers usually scan this and put it into the documents files with the ORVR application.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/15/2010 01:38 PM -----

From: Jim Snyder/AA/USEPA/US
To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/15/2010 11:16 AM
Subject: Re: VW Group: Request for ORVR Approval

Yes, Lynn is still the person for reviewing ORVR systems.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 03/12/2010 02:32 PM
Subject: VW Group: Request for ORVR Approval

Hello Jim,

I have just submitted an ORVR system approval request to Verify, addressed to you, for MY 2011 Evap/Refueling Family BADXR0155D4Q. I attached a copy for your convenience.
I'm not sure who I needed to address it to. Does Lynn Sohacki still review ORVR systems?

Also, the last I heard, we no longer have to send a copy to NHTSA. They only want to see it if the EPA has concerns. Is that still the case?

This new Evap/Refueling Family uses a Natural Vacuum Leak Detection system (NVLD) that is new technology for the Volkswagen Group. Otherwise, the system is similar to our other evap families.

Please alert whomever is responsible for ORVR review to this submission.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

Phone: (248) 754-4224
Fax: (248) 754-4207
E-mail: robert.hart@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Hart, Robert (VWoA)"
Sent: Mon 3/15/2010 6:14:02 PM
Subject: FW: VW Group: Request for ORVR Approval
CBI_BADXR0155D4Q_RFA_ORVR_R00.PDF

Hello Lynn,

The Request for ORVR Approval is attached.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

Phone: (248) 754-4224
Fax: (248) 754-4207
E-mail: robert.hart@vw.com

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, March 15, 2010 1:42 PM
To: Hart, Robert (VWoA)
Subject: Fw: VW Group: Request for ORVR Approval

Hi, Bob.

Since I almost never get onto Verify, please e-mail the ORVR file to me.
After we complete the review, I will fax the cover sheet back to you with "Accepted and Reviewed" written on it. Manufacturers usually scan this and put it into the documents files with the ORVR application.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/15/2010 01:38 PM -----

From: Jim Snyder/AA/USEPA/US
To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/15/2010 11:16 AM

Subject: Re: VW Group: Request for ORVR Approval

Yes, Lynn is still the person for reviewing ORVR systems.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 03/12/2010 02:32 PM

Subject: VW Group: Request for ORVR Approval

Hello Jim,

I have just submitted an ORVR system approval request to Verify, addressed to you, for MY 2011 Evap/Refueling Family BADXR0155D4Q. I attached a copy for your convenience.

I'm not sure who I needed to address it to. Does Lynn Sohacki still review ORVR systems?

Also, the last I heard, we no longer have to send a copy to NHTSA. They only want to see it if the EPA has concerns. Is that still the case?

This new Evap/Refueling Family uses a Natural Vacuum Leak Detection system (NVLD) that is new technology for the Volkswagen Group.

Otherwise, the system is similar to our other evap families.

Please alert whomever is responsible for ORVR review to this submission.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

Phone: (248) 754-4224
Fax: (248) 754-4207
E-mail: robert.hart@vw.com
(See attached file: CBI_BADXR0155D4Q_RFA_ORVR_R00.PDF)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Hart, Robert (VWoA)"
Sent: Mon 3/29/2010 1:14:09 PM
Subject: RE: VW Group: Request for ORVR Approval

Thanks for the update.

Bob Hart

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, March 29, 2010 9:12 AM
To: Hart, Robert (VWoA)
Subject: RE: VW Group: Request for ORVR Approval

Hi, Bob.

I finished my review, another ORVR team member has reviewed it. I'm only waiting for one other person's review. He's out today but in tomorrow. He should be done tomorrow afternoon.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 03/29/2010 07:22 AM
Subject: RE: VW Group: Request for ORVR Approval

Hello Lynn,

Please give me the status of the ORVR approval request for Evap/Refueling family BADXR0155D4Q submitted 15-Mar-10.

Best regards,

Bob Hart

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, March 15, 2010 1:42 PM
To: Hart, Robert (VWoA)
Subject: Fw: VW Group: Request for ORVR Approval

Hi, Bob.

Since I almost never get onto Verify, please e-mail the ORVR file to me.
After we complete the review, I will fax the cover sheet back to you
with "Accepted and Reviewed" written on it. Manufacturers usually scan
this and put it into the documents files with the ORVR application.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/15/2010 01:38 PM -----

From: Jim Snyder/AA/USEPA/US

To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, Lynn
Sohacki/AA/USEPA/US@EPA

Date: 03/15/2010 11:16 AM

Subject: Re: VW Group: Request for ORVR Approval

Yes, Lynn is still the person for reviewing ORVR systems.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division United States
Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 03/12/2010 02:32 PM

Subject: VW Group: Request for ORVR Approval

Hello Jim,

I have just submitted an ORVR system approval request to Verify, addressed to you, for MY 2011 Evap/Refueling Family BADXR0155D4Q. I attached a copy for your convenience.
I'm not sure who I needed to address it to. Does Lynn Sohacki still review ORVR systems?

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This new Evap/Refueling Family uses a Natural Vacuum Leak Detection system (NVLD) that is new technology for the Volkswagen Group. Otherwise, the system is similar to our other evap families.

Please alert whomever is responsible for ORVR review to this submission.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

Phone: (248) 754-4224
Fax: (248) 754-4207
E-mail: robert.hart@vw.com
(See attached file: CBI_BADXR0155D4Q_RFA_ORVR_R00.PDF)

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Reineke, Dennis" [Dennis.Reineke@vw.com]
From: "Mathis, KeeKee"
Sent: Mon 4/26/2010 1:36:08 PM
Subject: FW: PO Number 4500295427
[PO Number 4500295427.pdf](#)

Attached you will find a copy of the PO# that was requested. Thanks.

From: cypress2@vw.com [mailto:cypress2@vw.com]
Sent: Friday, April 23, 2010 4:32 PM
To: Mathis, KeeKee
Subject: PO Number 4500295427

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-4 EST)

ALBURN HILLS M 48326
U.S.A.

Please include PO number
and supplier number on invoice.

Supplier: 1000807784

Please address all invoices to:
Volkswagen Group of America, Inc.
Attn: Dennis Reineke
3800 Hamlin Road
Auburn Hills M 48326

ENVIRONMENTAL PROTECTION AGENCY
MOTOR VEHICLE/ENGINE PROGRAM
P.O. BOX 979032
SAINT LOUIS MO 63197-9000

Payment: Payable immediately Due net

Deliver FOB SHIPPING POINT

Item	Quantity	Description	Price /Unit	Total
00001	9	- TG Volkswagen		
	313,641.000	Value Unit	1.00	313,641.00
ITEM TEXT:				
-EPA Emission Certification				
- SAF# 12180				
00002	12	- TG Audi		
	418,188.000	Value Unit	1.00	418,188.00
00003	2	- TG Bentley		
	69,698.000	Value Unit	1.00	69,698.00
00004	1	- TG Lamborghini		
	34,849.000	Value Unit	1.00	34,849.00
Total net value excluding tax			USD	836,376.00

Note: Purchases are presumed to be taxable unless specifically identified as Tax Exempt.

This Purchase Order is made only upon and subject to all of the standard terms and conditions found on
<http://www.vwgroupsupply.com>.

Supplier Acknowledgement: Complete & Return Promptly

The above numbered order is acknowledged and accepted subject to the terms and conditions thereon.

Shipment Date

This is an electronically generated
Purchase Order valid without any signature.

ht

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2010

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-4 EST)

RETURN FREIGHT TO U.S.A.

Please include PO number and supplier number on invoice.

Supplier: 1000807784

Please address all invoices to:
Volkswagen Group of America, Inc.
Attn: Dennis Reineke
3800 Hamlin Road
Auburn Hills MI 48326

ENVIRONMENTAL PROTECTION AGENCY
MOTOR VEHICLE/ENGINE PROGRAM
P.O. BOX 979032
SAINT LOUIS MO 63197-9000

PRICING TYPES:

Please reference supplier document refer to the U.S. Environmental Protection Agency and email) dated 4/23/2010 outlining scope of service and all related costs.

Globe # Will enter at later date / Urgent PO# per Stefan 4/23/2010.

The above mentioned price must not be exceeded.

For technical questions, please contact the above mentioned requestor (1-248-754-4215).

The current version of General Terms and Conditions of Purchase can be found on

<http://www.vwgroupsupply.com>; using the following path:

Worldwide presence, VWGroup of America, Terms and Conditions, Non-Production Terms and Conditions

Please note:

Invoices must contain the Purchase Order number and description of Goods and/or Services. Except as otherwise stated in a Purchase Order, VWGA shall pay the Charges set forth in non-disputed invoices based on a Net 60 day payment term. In the event of any delay in receiving an invoice, or any omissions in any invoice, VWGA may withhold payment without losing its rights to applicable cash discounts. Except as otherwise stated in a Purchase Order, all payments will be in U.S. Dollars.

Supplier shall invoice sales tax in state/province of destination on taxable items. If tax is not specified, supplier is presumed to have included sales tax in invoiced price.

Pricing is subject to change subject to future negotiations.

To assure proper payment, supplier must invoice for goods and/or services in the same format as shown on this Purchase Order.

ACCOUNTING INFORMATION: CC- 61000 GL-8190040
840080190041

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-4 EST)

3800 Hamlin Road
AUBURN HILLS MI 48326
U.S.A.

Please include PO number
and supplier number on invoice.

Supplier: 1000807784

Please address all invoices to:
Volkswagen Group of America, Inc.
Attn: Dennis Reineke
3800 Hamlin Road
Auburn Hills MI 48326

ENVIRONMENTAL PROTECTION AGENCY
MOTOR VEHICLE/ENGINE PROGRAM
P.O. BOX 979032
SAINT LOUIS MO 63197-9000

86000479326
86000 1479394

3
2010

To: Jim Snyder/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; inc Wehrly/AA/USEPA/US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Vieser, Steffen (I/EA-83)" [Steffen.Vieser@AUDI.DE]; Schmidt, Oliver (EEO)" [Oliver.Schmidt@vw.com]
Cc: "Dorer, Frank, Dr. (EAES/3)" [frank.dorer@volkswagen.de]
From: "Kata, Leonard (EEO)"
Sent: Thur 5/17/2012 8:54:44 PM
Subject: VW and EPA Meeting - MPI/FSI Fuel Injection System

When: Wednesday, May 30, 2012 8:00 AM-9:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where: Online Meeting

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*

To all:

I have scheduled an online meeting to discuss the Volkswagen Group MPI/FSI Fuel Injection System. If this time is not acceptable or you cannot join this meeting through the internet connection provided, please let me know.

Jim:

I have added the names that you mentioned.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com<mailto:leonard.kata@vw.com>

.....
Join online meeting<<https://join.vw.com/leonard.kata/76929Z78>>
<https://join.vw.com/leonard.kata/76929Z78>

Join by Phone
248-754-6400
855-858-8080
Find a local number<<https://dialin.vw.com>>

Conference ID: Non-Responsive

Forgot your dial-in PIN?<<https://dialin.vw.com>> | First online
meeting?<<http://r.office.microsoft.com/r/rlidOC10?clid=1033&p1=4&p2=1041&pc=oc&ver=4&subver=0&bld=7185&bldver=0>>
[!OC([1033])!]
.....

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;Domenic.Rist@audi.de;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Robert French/OU=AA/O=USEPA/C=US@EPA[]; omenic.Rist@audi.de;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Robert French/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Robert French/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Robert French/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Robert French/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Robert French/OU=AA/O=USEPA/C=US@EPA[]; othar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; liver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 9/17/2012 3:04:06 PM

Subject: Audi Mtg w/ EPA rm 601C

- Field Survey for Idle Start Stop
- Idle Start / Stop – 2nd Generation
- Idle Start / Stop with Default on vs. Last Mode
- Drive Select Mode
- Tier 3 Credit Calculation
- SFTP II for Interim Tier 3
- FFV usage factor for MY 2017 (x % Ethanol = E85 driving)
- Label Calculation

Please let me know if you, and other EPA staff that you think should be involved, are available.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;Domenic.Rist@audi.de;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; omenic.Rist@audi.de;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; othar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; liver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA
Sent: Thur 9/20/2012 3:22:28 PM
Subject: Information Update - Room has changed: RE: Audi Meeting with EPA

- Field Survey for Idle Start Stop
- Idle Start / Stop – 2nd Generation
- Idle Start / Stop with Default on vs. Last Mode
- Drive Select Mode
- Tier 3 Credit Calculation
- SFTP II for Interim Tier 3
- FFV usage factor for MY 2017 (x % Ethanol = E85 driving)
- Label Calculation

Please let me know if you, and other EPA staff that you think should be involved, are available.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;Domenic.Rist@audi.de;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; omenic.Rist@audi.de;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;Lothar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; othar.Rech@AUDI.DE;Oliver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; liver.Schmidt@vw.com;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 9/26/2012 11:24:44 PM

Subject: Information Update - Subject has changed: Audi Mtg w/ EPA rm 601C

- Field Survey for Idle Start Stop
- Idle Start / Stop – 2nd Generation
- Idle Start / Stop with Default on vs. Last Mode
- Drive Select Mode
- Tier 3 Credit Calculation
- SFTP II for Interim Tier 3
- FFV usage factor for MY 2017 (x % Ethanol = E85 driving)
- Label Calculation

Please let me know if you, and other EPA staff that you think should be involved, are available.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification

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From: Giedrius Ambrozaitis

Sent: Tue 10/30/2012 1:59:35 PM
Subject: SCR Stakeholder Group -- Meeting October 31
[SCR Stakeholder Mtg Agenda October 31, 2012.doc](#)
[SCR Stakeholder group email list - October 2012.xls](#)
[Minutes SCR Urea stakeholders workgroup - April 24, 2012.doc](#)
[http://www.integer-research.com/conferences/dec-usa/
gambrozaitis@autoalliance.org](http://www.integer-research.com/conferences/dec-usa/gambrozaitis@autoalliance.org)

This is a reminder that despite Hurricane Sandy, the next meeting of the SCR Stakeholder Group will be held on October 31 at 3:00 PM Eastern at the Westin hotel, Cincinnati, Ohio, in conjunction with Integer Diesel Emissions Conference USA conference. Please see <http://www.integer-research.com/conferences/dec-usa/>

for information on the conference.

The call in info will be (213) 493-0606 with access Code: 825-359-856.

Attached is the excel stakeholder contact list and minutes and agenda.

=====

The SCR Stakeholder Group (formerly called the Urea Stakeholder Group) is made up of industries, organizations and companies interested in urea for mobile source applications.

Participants include:

- Government (US Department of Energy, EPA)
- Automotive and heavy-duty engine and truck manufacturer trade associations
- Fuel retailer and truck stop trade associations
- Oil companies
- Urea distributors
- Petroleum dispenser manufacturers and associations

The main objectives of the SCR Stakeholder Group are:

To exchange information with US government and other potential urea stakeholders on the potential market and need for urea availability.

To consider effective education and outreach to consumers and commercial concerns about urea, its use and availability.

To engage potential providers of urea availability to determine the conditions necessary for provision of retail availability before a profitable market exists.

If you have any questions concerning the SCR Stakeholder Group or the meeting, please call me at (248) 915-8836.

Sincerely,

Giedrius Ambrozaitis
Director, Environmental Affairs
Alliance of Automobile Manufacturers
Tel. (248) 915-8836
email: gambrozaitis@autoalliance.org

Agenda
SCR Stakeholder Group Meeting
October 31, 2012

Location:

Hayes Room 3rd floor

The Westin

Cincinnati, Ohio

21 E. 5th Street • Cincinnati, OH 45202

Phone: (513) 621-7700

Conference call number:

1-213-493-0606 with code 825-359-856

Agenda

SCR Stakeholder Group Meeting (3:00 pm - 5:00 pm)

1. Introduction/Roll Call	Ambrozaitis / Patrick Kelly	1 min
2. Review of previous meeting	Neil Whitbeck/All	5 mins
3. DEF Certification program Subcommittee a. DEF-AMAP update	Kevin Ferrick / Jeff Harmening	15 mins
4. ASTM D15 Committee a. ASTM DEF subcommittee D15.25	Joe Koury / John Gallagher - ASTM	15 mins
5. Standards a) update on the Marine Grade DEF Draft Standard submitted to ISO Norway in March. b) Recommendations for materials of compatibility deletions and additions (Table 1 of ISO22241-3) submitted in March.	Donald Thomas / Jim Spooner	15 mins
6. SCR Communications Subcommittee a. SCR/DEF news coverage report, industry announcements & developments b. Websites update d. DEF Conferences update	Christopher Goodfellow / Rebecca Shellim	15 mins
7. DEF Bulk Dispenser Subcommittee a. Recommended Practice released and available at PEI.org	Bob Renkes / All	No report
8. Regulatory Developments a. EPA Proposed Rule (NPRM) on Emergency Vehicles and SCR Maintenance	http://www.gpo.gov/fdsys/pkg/FR-2012-06-08/pdf/2012-13087.pdf	15 mins
9. Meeting Closure Review of goals and targets New Business Schedule Next Meeting	Neil Whitbeck / All	5 mins

To: "Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Schlueter, Hannah (EASZ/1)" [hannah.schlueter@volkswagen.de]; Stendel, Detlef (EASZ/1)" [detlef.stendel@volkswagen.de]; Preuss, Richard (EASZ)" [Richard.Preuss@volkswagen.de]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; inc Wehrly/AA/USEPA/US@EPA; Jim Snyder/AA/USEPA/US@EPA[]; im Snyder/AA/USEPA/US@EPA[]
From: "Schmidt, Oliver (EEO)"
Sent: Fri 11/9/2012 7:12:23 PM
Subject: Jetta Hybrid

Let us just use the Volkswagen system with the toll free call in number !
.....

Join by Phone

Non-Responsive

Find a local number<<https://dialin.vw.com>>

Conference ID: **Non-Responsive**

Hello,

as agreed with Lync, Volkswagen would like to take the opportunity to give the EPA an overview on the improvements on the Fuel Economy that were achieved since the original testing 6 weeks ago.

Hello Jim, hello Lync,

could you please provide a call in number for our colleges from Wolfsburg ?

Thank you

Oliver Schmidt

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To: "Giles, Michael (EEO)" [michael.giles@vw.com]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]
Cc: "Schlueter, Hannah (EASZ/1)" [hannah.schlueter@volkswagen.de]; Thomas, Richard (EEO)" [Richard.Thomas@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 11/29/2012 4:33:11 PM
Subject: Re: Hybrid Discussion

Yes, The EPA FTP test confirmed the emissions and fuel economy of the Mfr's FTP test. The only issue with the EPA test is the lack of SOC data but we had already confirmed passing SOC from the previous EPA FTP test. Using the Mfr FTP data is acceptable.

The EPA US06 confirmatory test exceeded the MFR's US06 Bag2 (highway portion) FE by 3.02%. Even though it was actually higher than the Mfr FE result, it doesn't confirm it since it is over 3% different. Therefore a retest is in order -or the Mfr can choose to accept the test with the lower result, which is the Mfr's US06 test in this case.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
Date: 11/29/2012 11:02 AM
Subject: Hybrid Discussion

Hi Jim,

We would like to follow up our discussion about the Hybrid. Here are our current thoughts:

- For the FTP test, if the finding is that the EPA test is technically invalid, is it possible to accept the Mfr test? We would accept this in preference to a re-test.
- For the US06 test: After discussion, we have decided to waive the re-test. Therefore, the official FE test is the lower of the confirmatory test and the manufacturer test. We understand this to be based on Hwy portion (Bag 2). The lower Bag 2 result is from the Mfr, therefore this test would be used.
- For the Hwy test, there is no issue.

Let's talk when you get a chance to confirm our thoughts.

Thanks

Mike
Michael Giles
Certification Specialist
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United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

To: CN=Bill Pidgeon/OU=AA/O=USEPA/C=US@EPA;CN=Chris
Nevers/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
N=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
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Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
N=DavidA Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
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N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
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N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
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Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William
Ott/OU=AA/O=USEPA/C=US@EPA[]; N=William Ott/OU=AA/O=USEPA/C=US@EPA[]
Cc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 12/13/2012 11:24:24 PM
Subject: VW Pre-Cert Mtg

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David
Good/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc
Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin
Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen
Healy/OU=AA/O=USEPA/C=US@EPA;CN=William
Ott/OU=AA/O=USEPA/C=US@EPA;William.Rodgers@vw.com[]; N=David
Good/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc
Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin
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Ott/OU=AA/O=USEPA/C=US@EPA;William.Rodgers@vw.com[]; N=Linc
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Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen
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Ott/OU=AA/O=USEPA/C=US@EPA;William.Rodgers@vw.com[]; illiam.Rodgers@vw.com[]
Cc: Leonard.Kata@vw.com;michael.giles@vw.com[]; ichael.giles@vw.com[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 4/4/2012 2:25:28 PM
Subject: VW Group - Audi A8 w/Start/Stop and Cyl Deactivation Test Drive
william.rodgers@vw.com

I reserved a room in case we want an pre-drive intro but primary a test drive opportunity of the Audi S/S system .

Hello Jim,

We would like to schedule time at your facility on Tuesday afternoon May 8th to allow you and EPA staff to test drive a 2013 Audi A8 4.0L V8 equipped with Start-Stop and Cylinder Deactivation technologies. We plan to have Audi Engineers available during the time of the test drives to answer any questions that you or other staff may have. Please let us know if this date is acceptable and what block of time will work best for you. As you know, Audi representatives will already be at EPA for confirmatory testing the morning of May 8 and 9th so either afternoon is acceptable for us. An alternative might be Monday May 7th after we deliver the test vehicle but the fore mentioned dates are preferred.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN Group of America, Inc.
Engineering and Environmental Office

3800 Hamlin Rd.

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United States

office (248) 754-4219

fax (248) 754-4207

william.rodgers@vw.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Betanzos Mendoza, Victor" [victor.betanzos@vw.com.mx]
Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Ed Nam/OU=AA/O=USEPA/C=US@EPA[]; N=Ed Nam/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Todd Sherwood/OU=AA/O=USEPA/C=US
Sent: Fri 4/13/2012 6:40:04 PM
Subject: Re: OBD regulations

While EPA does have light-duty OBD regulations, nearly all light-duty OBD systems in the US are built to comply with the California OBDII regulations. Those can be found here:
<http://www.arb.ca.gov/msprog/obdprog/obdregs.htm>

If you really do want the EPA regulations, you can find them in 40 CFR 86.1806-05, to which I have provided a link here:
<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=2af5c8cba23e912772e683f05cebaff5&rgn=div8&view=text&node=40:19.0.1.1.1.13.1.11&idno=40>

.....
Todd Sherwood
United States Environmental Protection Agency
2000 Traverwood, Ann Arbor, MI 48105, USA
sherwood.todd@epa.gov
+1.734.214.4405
.....

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; liver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; tuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=DavidA Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=William Ott/OU=AA/O=USEPA/C=US@EPA[]

From: CN=David Good/OU=AA/O=USEPA/C=US

Sent: Tue 8/7/2012 4:06:59 PM

Subject: VW/EPA mtg - Merger of VW & Porsche

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 1/8/2009 7:22:05 PM
Subject: RE: Fw: Hybrid Vehicle Meeting in Early 2009

Len, I think we can deal with that if that's their schedule. I would say more than 3/4 of us will be there on a Friday.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

"Kata, Leonard" <Leonard.Kata@vw.com>
01/08/2009 02:11 PM
To: Jim Snyder/AA/USEPA/US@EPA
cc: Linc Wehrly/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Chris Nevers/AA/USEPA/US@EPA, David Good/AA/USEPA/US@EPA, Arvon Mitcham/AA/USEPA/US@EPA
Subject: RE: Fw: Hybrid Vehicle Meeting in Early 2009

Hello Jim:

I have heard back from my colleagues regarding the timing of a meeting to discuss topics related to the certification and testing of hybrid vehicles. The proposal is the end of the week of March 2, 2009. More specifically, the afternoon of March 5 and the morning of March 6. I am not sure how you would feel about dividing the meeting over two days, particularly since the second day is a Friday. I realize that some of the staff may not be in on Friday.

Please let me know if this timeframe is workable.

Best regards,

Len Kata

Leonard W. Kata

Manager
Emission Regulations and Certification
Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4204

Cell: (248) 797-3886

FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Thursday, December 11, 2008 4:30 PM

To: Kata, Leonard

Subject: Re: Fw: Hybrid Vehicle Meeting in Early 2009

Len, We are certainly interested in having a meeting with them. It will be with me, Linc, Steve Healy, Chris Nevers, Dave Good and possibly Arvon Micham. I don't think we have any particular timing constraints yet.

Are they planning to visit the U.S. a particular week? Let me know and I will fit a meeting time into our schedules.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

Linc Wehrly/AA/USEPA/US
12/09/2008 08:07 AM

To Jim Snyder/AA/USEPA/US@EPA
cc Stephen Healy/AA/USEPA/US@EPA, Chris Nevers/AA/USEPA/US@EPA
Subject Fw: Hybrid Vehicle Meeting in Early 2009

Jim,

Please be sure to invite Steve and Chris to this meeting.

Thanks,
Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division

United States Environmental Protection Agency
(734) 214-4286

wehrly.linc@epa.gov

----- Forwarded by Linc Wehrly/AA/USEPA/US on 12/09/2008 08:06 AM -----

"Kata, Leonard" <Leonard.Kata@vw.com>

Sent by: "Kata, Leonard" <Leonard.Kata@vw.com>

Received Date:

12/08/2008 04:55 PM

Transmission Date:

12/08/2008 04:55:42 PM

To Linc Wehrly/AA/USEPA/US@EPA, David Good/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA,

Ex. 7 [redacted]@arb.ca.gov>, **Ex. 7** [redacted]@arb.ca.gov>

cc

Subject Hybrid Vehicle Meeting in Early 2009

To all:

My colleagues in at our parent company in Germany have expressed an interest in meeting with the certification staff at EPA and ARB to discuss issues related to hybrid vehicle technology and certification. The following is a general list of the topics of interest:

- HEV Concepts/Technology
- Certification, Durability, Emissions Measurement
- Test Procedures
- Pressurized Fuel Tank
- Bench Testing
- Other

We would like to use the opportunity to share our thoughts on these topics and discuss the intent and direction of the agencies. At this time I would like to suggest meeting with each agency separately, in the mid-February to early-March time frame. My questions are 1.) whether the agencies are agreeable to such a meeting, 2.) who you would recommend participate from the agencies, and 3.) if there any particular time constraints during the suggested period.

I appreciate your consideration of this suggestion and look forward to hearing from you.

Best regards,

Len

Leonard W. Kata

Manager

Emission Regulations and Certification

Engineering and Environmental Office

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Phone: (248) 754-4204

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FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; eonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA
Sent: Thur 1/29/2009 7:51:37 PM
Subject: Invitation: VW : Hybrid Vehicle Meeting Part 1 of possibly 2 (Mar 5 01:00 PM EST in AA-C126/AA-OTAQ-OFFICE@EPA)

EPA / Volkswagen meeting with engineers from Germany: They want to meet Thursday and Friday. I hope to get more detail regarding the topics so that we know what will be presented Thursday.

My colleagues in at our parent company in Germany have expressed an interest in meeting with the certification staff at EPA and ARB to discuss issues related to hybrid vehicle technology and certification. The following is a general list of the topics of interest:

- HEV Concepts/Technology
- Certification, Durability, Emissions Measurement
- Test Procedures
- Pressurized Fuel Tank
- Bench Testing
- Other

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I appreciate your consideration of this suggestion and look forward to hearing from you.

Best regards,

Len

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; eonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA
Sent: Thur 1/29/2009 7:57:16 PM
Subject: Invitation: VW : Hybrid Vehicle Meeting Part 2 of possibly 2 (Mar 5 09:00 AM EST in AA-C126/AA-OTAQ-OFFICE@EPA)

EPA / Volkswagen meeting with engineers from Germany: They want to meet Thursday and Friday. I hope to get more detail regarding the topics so that we know what will be presented Thursday or spill over to Friday. .

My colleagues in at our parent company in Germany have expressed an interest in meeting with the certification staff at EPA and ARB to discuss issues related to hybrid vehicle technology and certification. The following is a general list of the topics of interest:

- HEV Concepts/Technology
- Certification, Durability, Emissions Measurement
- Test Procedures
- Pressurized Fuel Tank
- Bench Testing
- Other

We would like to use the opportunity to share our thoughts on these topics and discuss the intent and direction of the agencies. At this time I would like to suggest meeting with each agency separately, in the mid-February to early-March time frame. My questions are 1.) whether the agencies are agreeable to such a meeting, 2.) who you would recommend participate from the agencies, and 3.) if there any particular time constraints during the suggested period.

I appreciate your consideration of this suggestion and look forward to hearing from you.

Best regards,

Len

To: Jim Snyder/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; avid Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; rvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; ed Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; arl Paulina/AA/USEPA/US@EPA[]
Cc: "Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]; christoph.kohnen@vw.com>;"Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Kata, Leonard"
Sent: Thur 3/5/2009 2:11:45 PM
Subject: VW/Audi Presentation March 5/6, 2009 ... 2 of 5
[EPA presentation sent final-Part2of2.pdf](#)

PART 2 of 5

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Manager
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To: Jim Snyder/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; avid Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; rvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; ed Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; arl Paulina/AA/USEPA/US@EPA[]
Cc: "Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]; christoph.kohnen@vw.com>;"Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Kata, Leonard"
Sent: Thur 3/5/2009 2:01:49 PM
Subject: VW/Audi Presentation March 5/6, 2009 ... 1 of 5
[EPA presentation sent final-Part1of2.pdf](#)

To all:

Have had trouble sending this information due to file size, I have broken the presentation into segments. Please see subject line for ordering the segments.

Best regards,

Len

Leonard W. Kata
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Emission Regulations and Certification
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Cc: "Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]; christoph.kohnen@vw.com>;"Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Kata, Leonard"
Sent: Thur 3/5/2009 2:13:06 PM
Subject: VW/Audi Presentation March 5/6, 2009 ... 3 of 5
[EPA CARB Certification Hybrid PH V3-Part1of2.pdf](#)

PART 3 OF 5

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To: Jim Snyder/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; avid Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Arvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; rvon Mitcham/AA/USEPA/US@EPA;Ted Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; ed Trimble/AA/USEPA/US@EPA;Carl Paulina/AA/USEPA/US@EPA[]; arl Paulina/AA/USEPA/US@EPA[]
Cc: "Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]; christoph.kohnen@vw.com>;"Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Johnson, Stuart" [Stuart.Johnson@vw.com]
From: "Kata, Leonard"
Sent: Thur 3/5/2009 2:15:11 PM
Subject: VW/Audi Presentation March 5/6, 2009 ... 4 of 5
[EPA CARB Certification Hybrid PH V3-Part2of2.pdf](#)

PART 4 OF 5

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To: David Good/AA/USEPA/US@EPA[]
Cc: "Krause, Norbert (VWoA)" [Norbert.Krause@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Kata, Leonard" [Leonard.Kata@vw.com]; obert Peavyhouse/AA/USEPA/US@EPA; Linc Wehrly/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA[]
From: "Thomas, Richard"
Sent: Wed 4/1/2009 1:56:42 PM
Subject: 2008 Volkswagen Group PC Final CAFE letter
[CBI_8VWX_COMMON_CAFE_LDV_R00.pdf](#)

Hello Dave;

As we have discussed on the phone previously, I have attached the cover letter with our Volkswagen Group 2008 Passenger Car Final CAFE. I understand that the Verify system will be modified to include a category for such cover letters in the future. I will enter them into the system using Verify once this is accomplished. If you have any questions, please contact me directly.

Best regards,
Richard E. Thomas
VOLKSWAGEN GROUP OF AMERICA, INC.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Norbert Krause Name
Director Title
EEO Department
248 754 4201 Phone
248 754 4207 Fax
Norbert.Krause@vw.com E-Mail

March 31, 2009 Date

Subject: Volkswagen Group 2008 Final CAFE Report

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Dear Mr. Wehrly;

Enclosed is the manufacturer's calculation for the 2008 final fuel economy average. This calculation is provided for the Volkswagen Import Passenger Car category and in accordance to the regulations contained in 40 CFR 600.510-93. The final CAFE value is based upon approved EPA fuel economy data and final production volumes for the 2008 model year vehicles. The report has successfully been processed using the CFEIS system and submitted through Verify. The final Import Passenger Car CAFE value adjusted is **29.1 MPG**.

The attachments to this letter contain the domestic content calculation as requested in the EPA certification mail-out CD-92-06. The Volkswagen Group of America, Inc. procedure for this calculation follows the procedure outlined in 40 CFR 600.511-80. Our procedure is described as follows:

- For vehicles produced outside of the NAFTA territory, the "declared value" of foreign components is basically, the ex factory value of each of the models which we have imported. The freight and insurance is added to this value and is labeled as "adjusted import value". The value of U.S. components has not been excluded because this value is included in the declared value upon importation of the vehicles. The "cost of production" as defined in the regulations equates to our wholesale price to the dealer.
- For vehicles produced within the NAFTA territory (Mexico), we followed the procedure established according to NAFTA Appendix 300-A.3, where Paragraph 1 states:

"For purposes of the Energy Policy and Conservation Act of 1975, 42 U.S.C. 6201...the United States shall consider an automobile to be domestically manufactured in any model year if at least 75 percent of the cost to the manufacturer of such automobile is attributable to value added in Canada, Mexico or the United

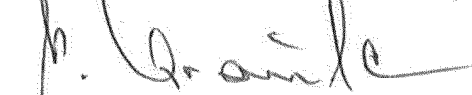
States... Paragraph 1 shall apply beginning with the next model year after January 1, 2004, where the enterprise subject to the fuel economy requirements for those automobiles under the CAFE Act, has not made an election under subparagraph a)."

For purposes of paragraph 1, and according to 40 CFR 600.511-80, the ratio obtained in the domestic production determination was obtained from dividing the sum of the declared value (as defined in §600.502) of all of the imported components installed or included on automobiles produced within such a car line within a given model year plus the cost of transportation and insuring such components to the United States Port of entry, by the cost of production (as defined in §600.52) of all automobiles within such a car line.

The calculated results for each model are listed in the right column entitled CAFE Ratio. These values are clearly greater than the 0.25 ratio and therefore all Volkswagen Group models are determined to be in the Import category.

If you have any questions or require additional information, please contact me or Mr. Richard Thomas at (248) 754-4213.

Sincerely,
VOLKSWAGEN GROUP of AMERICA, Inc.



Norbert Krause
Director
Engineering and Environmental Office

attachments

2008 FINAL CAFE-LDV
VOLKSWAGEN GROUP
MANUFACTURER AVERAGE CALCULATION

Calculate fuel economy average of domestically and non-domestically produced automobiles where:

$$\text{Import Average IAFE} = \frac{\text{TIPA}}{n} = 28.9 \text{ MPG (unadjusted)}$$

$$\sum_{\text{MT}=1} \frac{\text{IMT}}{\text{FEMT}}$$

IAFE	Average fuel economy of non-domestically produced automobiles.
TIPA	Total number of passenger automobiles produced or imported for sale in the United States.
IMT	Number of passenger automobiles of a model type produced or imported.
FEMT	Fuel economy, MPG for a model type.
MT	Model type
n	Total number of model types imported (as applicable in a manufacturer's model year).

$$\text{IAFE (unadjusted)} = \frac{291,483}{10075.3632} = 28.9303 \text{ MPG}$$

$$\text{IAFE (adjusted)} = 29.1 \text{ MPG}$$

VOLKSWAGEN GROUP OF AMERICA, INC.
DOMESTIC CONTENT CALCULATION FOR 2008 FINAL CAFE

<u>AUDI</u>	<u>MSRP</u>	<u>Import Value</u>	<u>Ocean Freight</u>	<u>Insurance</u>	<u>Adjusted Import Value</u>	<u>Wholesale Price</u>	<u>CAFE Ratio</u>
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Ex. 4 - CBI

VOLKSWAGEN GROUP OF AMERICA, INC.
DOMESTIC CONTENT CALCULATION FOR 2008

VOLKSWAGEN

<u>Factory Price</u>	<u>Freight</u>	<u>Insurance</u>	<u>Adjusted Import Value</u>	<u>Wholesale Price</u>	<u>CAFE Ratio</u>
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Ex. 4 - CBI

VOLKSWAGEN GROUP OF AMERICA, INC.
DOMESTIC CONTENT CALCULATION FOR 2008

BENTLEY

Transfer Price

Wholesale Price

%

Ex. 4 - CBI

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;healy.stephen@epa.gov;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com[]; ealy.stephen@epa.gov;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com[]; eonard.Kata@vw.com[]
Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Mon 9/21/2009 8:10:13 PM
Subject: VW - Hybrid & MSAT issues

To: Linc Wehrly/AA/USEPA/US@EPA[]
Cc: David Good/AA/USEPA/US@EPA[]; Martin Reineman/AA/USEPA/US@EPA[]; artin Reineman/AA/USEPA/US@EPA[]
From: "Kata, Leonard"
Sent: Wed 10/14/2009 3:11:17 PM
Subject: RE: Volkswagen Follow-Up Meeting

Hi Linc:

Thanks for the quick response. I propose 10:00 a.m. to 12:00 p.m. That would allow Juergen time to make a flight back to Germany later that day. If this is not convenient, there are evening flights too. I think that we have some flexibility on the time (a bit earlier or a bit later).

Best regards,

Len

Leonard W. Kata
Manager
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From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]
Sent: Wednesday, October 14, 2009 8:50 AM
To: Kata, Leonard
Cc: Good.David@epamail.epa.gov; Reineman.Martin@epamail.epa.gov
Subject: Re: Volkswagen Follow-Up Meeting

Len,

November 2, 2009 should work. Do you have a preferred time?

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA, David Good/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA
Date: 10/13/2009 03:54 PM
Subject: Volkswagen Follow-Up Meeting

To all:

As you may recall, at our September 24, 2009 meeting, we raised the issue of certification procedures for fuel fired heaters (FFH). At that time, EPA indicated that they were not prepared to approve the proposed procedure. Mr. Juergen Peter, who had joined the discussion by telephone, mentioned that he would be in the U.S. at the end of October, and suggested that we defer further discussion until then.

I would like to check on your availability for this follow-up meeting. Mr. Peter and I will be in California for meetings during the last week of October, so I suggest that we meet on Monday, November 2, 2009, if possible. We think that 2 hours should be sufficient.

A graphic describing the basic procedure was attached to the hand-outs from our September 24, 2009 meeting.

Best regards,

Len

Leonard W. Kata
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To: Martin Reineman/AA/USEPA/US@EPA[]
Cc: Linc Wehrly/AA/USEPA/US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]
From: "Kata, Leonard"
Sent: Thur 10/29/2009 5:41:15 AM
Subject: RE: Volkswagen Follow-Up Meeting

Hello Marty:

The following are the questions raised in your e-mail accompanied by our responses, shown in bold print.

Are you intending to use a fuel fired heater on both diesel and gasoline fueled vehicles for the 2011 model year? Do you know which vehicles? Yes, both gasoline and diesel, but not for MY2011. Possible vehicle configurations diesel-powered vehicles, BEVs, HEVs.

Describe the test rig you refer to in the FFH certification procedure in more detail, as in what componentry is on the test rig. The test rig contains the FFH, fuel line to fuel tank (outside of the SHED). fuel pump for the heater, and electrical connections as needed to operate the heater. Please note that the fuel tank is certified with the vehicle.

On your certification procedure flow chart, describe the "run-down" following the FFH shut-off. The run-down procedure is the operation of the fan of the FFH in order to purge the FFH combustion chamber.

For EPA approval, are the calculated equivalent emissions still being compared to the CA LEV-II standard to determine the acceptability of the FFH? Yes, California LEV II ULEV.

On the evap test procedure, are the emissions added to the whole-vehicle evap emissions and compared to the 2 day evaporative emission standard? Any other info on the current state of the art for FFHs with respect to evap emission compliance? In particular, do you have knowledge from your FFH supplier that suggests the evap emissions from the FFH would exceed the evap standards if the FFH was installed on a certification vehicle and the FFH run for several minutes after the end of the FTP test but before the hot soak portion of the evap test? The intention is that the vehicle, including FFH, complies with the evaporative emission standard to which the vehicle is certified. The intent of the suggested certification procedure is to trigger changes to the FFH (shut-off valve added to the open fuel line) with the target to fulfill the zero-evap standard. Volkswagen has already stated to the FFH supplier that future certification would only be possible if the FFH fulfils the zero-evap standard, because agencies in the US would require certification and IUVP testing with the FFH installed.

I was going to contact **Ex. 7** at CARB and ask if they've revised any policies for FFHs. Are you aware of any changes, such as increasing the maximum ambient conditions under which the FFH may be operated? Any new guidance on CARB's policy on evap emissions from FFHs? No, not aware of any changes.

We can discuss these topics further during our upcoming meeting.

Best regards,

Len

Leonard W. Kata
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Emission Regulations and Certification
Engineering and Environmental Office

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From: Reineman.Martin@epamail.epa.gov [mailto:Reineman.Martin@epamail.epa.gov]
Sent: Wednesday, October 21, 2009 4:57 PM
To: Kata, Leonard
Subject: RE: Volkswagen Follow-Up Meeting

Hello Len,

I have a few questions in advance of our Nov 2nd meeting on fuel fired heaters.

Are you intending to use a fuel fired heater on both diesel and gasoline fueled vehicles for the 2011 model year?
Do you know which vehicles?

Describe the test rig you refer to in the FFH certification procedure in more detail, as in what componentry is on the test rig.

On your certification procedure flow chart, describe the "run-down" following the FFH shut-off.

For EPA approval, are the calculated equivalent emissions still being compared to the CA LEV-II standard to determine the acceptability of the FFH?

On the evap test procedure, are the emissions added to the whole-vehicle evap emissions and compared to the 2 day evaporative emission standard? Any other info on the current state of the art for FFHs with respect to evap emission compliance? In particular, do you have knowledge from your FFH supplier that suggests the evap emissions from the FFH would exceed the evap standards if the FFH was installed on a certification vehicle and the FFH run for several minutes after the end of the FTP test but before the hot soak portion of the evap test?

I was going to contact Ex. 7 at CARB and ask if they've revised any policies for FFHs. Are you aware of any changes, such as increasing the maximum ambient conditions under which the FFH may be operated? Any new guidance on CARB's policy on evap emissions from FFHs?

To: Martin Reineman/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; inc Wehrly/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; avid Good/AA/USEPA/US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
From: "Kata, Leonard"
Sent: Thur 10/29/2009 11:45:50 AM
Subject: Volkswagen Follow-Up Meeting - Fuel Fired Heater
Microsoft Word - VW Request for Approval of FFH certification procedure_2009.pdf
Microsoft PowerPoint - Suggested Certification Procedure for FFH_update_05_03_2009.pdf

Hello Linc, Marty, and Dave:

I have attached a document that presents the Volkswagen proposal for certification of the FFH. We wish to use this document to guide our discussions at our follow-up meeting on the FFH, scheduled for Monday, Nov. 2, 2009 at 10:00 a.m. Copies of the graphics presented at our last meeting are attached for reference.

The suggested agenda:

1. Introduction from VW
2. Summary of the past years for FFH certification
3. Open workshop discussing the proposal as attached or others.
4. Conclusion, next steps (e.g., "Guidance letter on how to certify a FFH")

I recognize that you have indicated that EPA wishes to provide, at this meeting, approval or disapproval of the procedure proposed at our last meeting. We appreciate your efforts in this regard. In either case, we would like to use the opportunity of this meeting as a "workshop" to discuss certification procedures for FFHs, and work toward a fixed process that will carry us into the future.

Best regards,

Len

Leonard W. Kata
Manager
Emission Regulations and Certification
Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4204
Cell: (248) 797-3886
FAX: (248) 754-4207
E-Mail: leonard.kata@vw.com

<<Microsoft Word - VW Request for Approval of FFH certification procedure_2009.pdf>> <<Microsoft PowerPoint - Suggested Certification Procedure for FFH_update_05_03_2009.pdf>>

To: Linc Wehrly/AA/USEPA/US@EPA[]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
From: "Johnson, Stuart"
Sent: Mon 12/21/2009 8:29:57 PM
Subject: FW:
[20091221123434762.pdf](#)

Hello Linc,

Attached please find the dioxin report we discussed earlier today.
Please let me know if you have any questions.

If we don't talk have a good holiday.

Best Regards,

Stuart

To: David Good/AA/USEPA/US@EPA[]
Cc: Linc Wehrly/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
From: "Kata, Leonard"
Sent: Fri 1/22/2010 10:01:31 PM
Subject: Meeting with VW/Audi

Hi Dave:

Next week, Lothar Rech from Audi will be visiting our offices. He has requested that I contact EPA and try to set up a meeting, primarily as a follow-up to the meeting we had last September 24, 2009. Topics would include the following:

Test groups for conventional and hybrid vehicle.
Hybrid test matrix and open SOC measurement for SC03 and COLD CO tests.
Status EPA "Dear Manufacturer" letter for hybrid test procedures.
Open points from September 2009 meeting.
Soak times and tests series for conformity tests.

Steps necessary to get an EPA certificate for an electric vehicle.

With respect to the open points from the September 24, 2009 meeting, I will provide you with a brief report of my understanding of those points.

We would be available to meet next Wednesday, January 27, 2010 or Thursday, January 28, 2010. Please let me know if either of these dates would be acceptable and your preferred time.

Just FYI - I have checked my notes from the September 24, 2009 meeting and EPA participants included Linc Wehrly, Marty Reineman, Tom Anderson, Joel Ball, Chris Nevers, Steve Healy, and you.

Best regards,

Len

Leonard W. Kata
Manager
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To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA
Sent: Mon 1/25/2010 9:06:48 PM
Subject: Fw: Meeting with VW/Audi on HEV cert and testing

Next week, Lothar Rech from Audi will be visiting our offices. He has requested that I contact EPA and try to set up a meeting, primarily as a follow-up to the meeting we had last September 24, 2009. Topics would include the following:

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Best regards,

Len

Leonard W. Kata
Manager
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To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA
Sent: Tue 2/2/2010 10:13:32 PM
Subject: Meeting with Volkswagen/ Audi: new tank concept for for SCR systems

Our colleagues from Audi will be in the U.S. during the first week in March 2010 to participate in a number of meetings. They wish to meet with EPA Staff.

The discussion topics include:

Presentation and request for approval of a new tank concept for for SCR systems in various Audi models equipped with the 3.0L TDI diesel engine.
Diesel Exhaust Fluid distribution infrastructure.

To: Linc Wehrly/AA/USEPA/US@EPA[]
From: "Johnson, Stuart"
Sent: Fri 2/5/2010 8:56:24 PM
Subject: RE: FW:

Hello Linc,

Thanks for the note. I forwarded your questions to Germany so hopefully I can get an answer for you next week.

Best Regards,

Stuart

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]
Sent: Friday, February 05, 2010 10:56 AM
To: Johnson, Stuart
Cc: Kohnen, Christoph (VWGoA)
Subject: Re: FW:

Stuart,

Sorry I haven't had a chance to return your call. I'm providing some feedback from our engineer who has been in charge of the EPA dioxin test program and the main reviewer of your report. Please let me know if you have any comments or questions. his comments are below:

VW's sample train set up was not ideal and it wasn't clear if they used isotope dilution theory to check for sample loss and in the final concentration determination. Also it is not clear if their results presented in pg/m3 are m3 of exhaust flow or m3 of exhaust sampled. We would like to see pg/m3 of exhaust flow. Also they should present the results in pg/mi.

I would like the above issues addressed before we sign off on the results, but I do think that in the end their results are what we would expect based on our in-house test program and what we have seen coming out of other test programs.

Thanks,
Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group

Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Johnson, Stuart" <Stuart.Johnson@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 12/21/2009 03:31 PM
Subject: FW:

Hello Linc,

Attached please find the dioxin report we discussed earlier today.
Please let me know if you have any questions.

If we don't talk have a good holiday.

Best Regards,

Stuart
[attachment "20091221123434762.pdf" deleted by Linc Wehrly/AA/USEPA/US]

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 2/22/2010 8:41:59 PM
Subject: VW/Audi: additional questions on EV,PHEV cert

additional questions from VW regarding certification of EVs, FCEVs, PHEV etc.

I'll try to get some more specifics so we know who is needed to attend.

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Maria Peralta/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 5/17/2010 2:41:52 PM
Subject: Road Load Determination Meeting w/ VW

Hello Linc and Jim:

As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your e-mail of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.

I had previously stated that one or two people from our local office and another two or three from Germany would attend. Considering the travel time and distance for our German colleagues, I would like to know whether it would be acceptable to have them join the meeting by telephone. I would still attend in person and provide the presentation materials, with the technical experts engaged in the dialogue. I am able to set up a conference call-in number and access code.

I would appreciate your thoughts on this. Please recognize that this request should not be construed as minimizing the importance of this meeting. We look forward to a detailed discussion.

Best regards,
Len

—

To: "Giles, Michael" [michael.giles@vw.com]; inc Wehrly/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; im Snyder/AA/USEPA/US@EPA[]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
From: "Kata, Leonard"
Sent: Tue 6/29/2010 5:18:29 PM
Subject: Volkswagen Meeting to Discuss Early CO2 Credit Calculations

To all:

As discussed with Linc Wehrly at EPA, we are scheduled to meet on Thursday, July 1, 2010. The subject will be the early CO2 credit provisions in the EPA GHG final rule. We intend to present our understanding of the regulatory requirements and a sample calculation for the four pathway options.

Volkswagen's goal is to gain assurance that the calculation approach being considered and determination of the appropriate pathway is correct.

We did not discuss an end time, but from the Volkswagen side, we are flexible on this point.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]
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From: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA
Sent: Mon 8/9/2010 8:13:41 PM
Subject: VW/Audi Meeting with EPA: Misc issues

Hello Jim:

Per our telephone conversation, I am sending a request for a meeting with EPA staff on Thursday afternoon, August 19, 2010.

Preliminary discussion topics would be:

- Worst case emission and emission impact for OBD monitor
- HEV application for certification (example, open points)
- Worst case determination for FE (GHG) and emissions e.g. Start/Stop Switch
- Emission warranty part list for HEV parts and A/C system (GHG)
- Determination of OBD relevance
- Specific Hybrid test issues

I believe that we would need about 2 hours. I will try to refine the list of topics and provide better explanation.

Best regards,
Len

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

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Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 8/10/2010 1:48:59 PM
Subject: Rescheduled: VW/Audi Meeting with EPA: Misc issues (Aug 19 01:00 PM EDT in AA-601C/AA-OTAQ-LAB@EPA)

Hello Jim:

Per our telephone conversation, I am sending a request for a meeting with EPA staff on Thursday afternoon, August 19, 2010.

Preliminary discussion topics would be:

- Worst case emission and emission impact for OBD monitor
- HEV application for certification (example, open points)
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Best regards,
Len

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

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E-Mail: leonard.kata@vw.com

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[];
N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 11/23/2010 9:57:59 PM
Subject: Re: 2012 Volkswagen Pre-Certification Document and Meeting Request

Thanks Len, December 1 is okay with me. I will check the schedule with the other guys and schedule a meeting time.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: David Good/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 11/19/2010 04:50 PM
Subject: 2012 Volkswagen Pre-Certification Document and Meeting Request

Hello Jim:

Thus far, we have completed preparation of the 2012 Volkswagen pre-certification letter, in accordance with the existing "Dear Manufacturer" guidance letter on this topic (CCD-03-12). Our letter will be filed with the VERIFY system today.

In the letter we state that we will follow with our 2012 Pre-Model Year GHG Report. We are finishing this right now and intend to submit the report to the VERIFY system in the very near future.

We also state that we would like to schedule a meeting. At the meeting we would walk through the pre-certification letter and attachments and present to 2012 pre-model year GHG report. As mentioned the documents will be available for your prior review.

With the Thanksgiving Holiday next week, staff schedules are somewhat mixed, as might also be the case at EPA. Therefore, I would like to propose a meeting with EPA on Wednesday, December 1, 2010.

Please let me know if this date is acceptable.

Best regards,

Len

Leonard W. Kata

Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

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Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 11/29/2010 6:02:22 PM

Subject: VW Pre-Cert mtg and 2012 pre-model year GHG report

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 10:48:45 PM

Subject: Audi phone conference: Start/stop and manual trans

EPA room phone is 7-34-214-4152

I will try to get some materials to you prior to the call. To be more specific about the topics:

1. General discussion concerning start-stop devices.
2. Shift speeds for manual transmission vehicles with start-stop devices

To: David Good/AA/USEPA/US@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA;Roberts French/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;"Kata, Leonard" [Leonard.Kata@vw.com]; oberts French/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;"Kata, Leonard" [Leonard.Kata@vw.com]; inc Wehrly/AA/USEPA/US@EPA;"Kata, Leonard" [Leonard.Kata@vw.com]; Kata, Leonard" [Leonard.Kata@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Baraldi Andrea" [andrea.baraldi@lamborghini.com]
From: "Thomas, Richard (EEO)"
Sent: Thur 6/2/2011 4:00:27 PM
Subject: Lamborghini Roadster Suppress from Fuel Economy Guide
Richard.Thomas@VW.com

Hello Dave;

Sorry about all the fuss about this Lamborghini model and the communication that EPA got from the Lamborghini agency. As you know our office labeled the Aventador Coupe and Aventador Roadster (carline 476) back in January with a release date of February 28th. This was all good at that time. Today we learned that the Aventador Roadster will most likely not be built during the 2012 production year, but more likely as the 2013 model year starts production. Since this 2012 Roadster model will most likely not be available, we request that it be suppressed or removed from the online fuel economy guide.

Once we get the litmus test issues from Verify resolved, as we are having trouble to enter new labels and correct already issued labels into Verify, I will change the release date of the Lamborghini Aventador Roadster, label index 06.

If you have any questions, please call me.

Best regards,

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Justin Cohen/DC/USEPA/US@EPA;"Thomas, Richard (EEO)"
[Richard.Thomas@vw.com]; Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: Karl Simon/DC/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA[]; inc
Wehrly/AA/USEPA/US@EPA[]
From: "Kohnen, Christoph (VWGoA)"
Sent: Mon 6/6/2011 4:57:05 PM
Subject: RE: Posting of 2012 Lamborghini Aventador Roadster

Justin,

Thanks for your note.

I have no issues with the text and will forward it to the colleagues from Lamborghini for their opinion.
Hope I can get back to you soon.

Best Regards

Christoph

Dr. Christoph Kohnen

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4201
Cell: (248) 408-7548
FAX: (248) 754-4207
E-Mail: christoph.kohnen@vw.com

-----Original Message-----

From: Cohen.Justin@epamail.epa.gov [mailto:Cohen.Justin@epamail.epa.gov]
Sent: Monday, June 06, 2011 12:26 PM
To: Kohnen, Christoph (VWGoA); Thomas, Richard (EEO)
Cc: Simon.Karl@epamail.epa.gov; Wehrly.Linc@epamail.epa.gov
Subject: Posting of 2012 Lamborghini Aventador Roadster

Thanks for the call Friday. It was great to touch base and compare notes a little bit. And I apologize for the delay in my follow-up. (In fact, hopefully the issue has started to blow over by now...!)

As promised, pasted below is a distillation of what transpired from our program experts. It has been reviewed and approved by Linc and Karl, who green-lighted my sharing it with you directly (as you can tell this is all a little outside my lane). The language could be helpful facts and fodder to draw from, in the unlikely event we have to field any questions regarding EPA "leaking" information. Also, any responses would be filtered through the agency's broader press office

As we discussed last week, please reply w/ your PR contact, and let us know if in your view there's any inaccuracies and if you're able to

share any language you've prepared or whether you'll riff from this.

Thanks much! I think it will be helpful to everyone to be on the same page.

Through websites like www.fueleconomy.gov, EPA is committed to providing consumers with the best fuel economy and environmental information possible to help consumers comparison shop for a new vehicle. EPA periodically updates fuel economy information into www.fueleconomy.gov as it becomes available from the manufacturers. The manufacturers provide EPA with a date, known as the release date, when the information has been cleared to be released to the public. EPA only updates the website with fuel economy information after the release date has passed. For the latest fuel economy information update, VW/Lamborghini provided Feb. 28, 2011 as the public release date for such information regarding its model year (MY) 2012 Lamborghini Aventador Roadster. Based on this release date, EPA provided the appropriate information for posting on www.fueleconomy.gov in our initial release of MY 2012 data. This is in keeping with the agency's standard operating procedure for all cars and light trucks. VW/Lamborghini recently decided that the launch of the vehicle in question will be delayed for this model year. As such, on June 2, 2011, they asked EPA to pull that particular model from www.fueleconomy.gov, which we did. Thus in both cases, EPA acted based on specific requests from the manufacturer.

Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

To: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
Cc: CN=Karl Simon/OU=DC/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Justin Cohen/OU=DC/O=USEPA/C=US
Sent: Wed 6/8/2011 1:52:08 PM
Subject: RE: Posting of 2012 Lamborghini Aventador Roadster
www.fueleconomy.gov
www.fueleconomy.gov
www.fueleconomy.gov
www.fueleconomy.gov

Christoph,

Great! Thank you for the reply. Karl, Linc, and I are fine with the edited language.

We'll recommend that the agency use these agreed upon facts as a guidepost if we're asked about this matter.

And thank you for providing the points of contact for Lamborghini

Please don't hesitate to get in touch if there's opportunities to further coordinate on this.

,
Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
fax: (202) 564-1686

From: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
To: Justin Cohen/DC/USEPA/US@EPA
Cc: Karl Simon/DC/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA
Date: 06/07/2011 04:50 PM
Subject: RE: Posting of 2012 Lamborghini Aventador Roadster

Justin,

After some internal discussions with our colleagues from Lamborghini we came to the conclusion that we would like to ask for some minor modifications of your initial statement. Please see enclosed the modified and underlined section.

If press will call Lamborghini the answer will match this enclosed statement.

For Lamborghini the press contact is Kevin Fisher [Kevin.Fisher@centigrade.com]. If customers call in and ask for more details your statement may be that they should contact the local/next Lamborghini dealer to get more updates.

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fuel economy and environmental information possible to help consumers comparison shop for a new vehicle. EPA periodically updates fuel economy information into www.fueleconomy.gov as it becomes available from the manufacturers. The manufacturers provide EPA with a date, known as the release date, when the information has been cleared to be released to the public. EPA only updates the website with fuel economy information after the release date has passed. For the latest fuel economy information update, Lamborghini provided Feb. 28, 2011 as the public release date for such information regarding its model year (MY) 2012 Lamborghini Aventador Roadster. Based on this release date, EPA provided the appropriate information for posting on www.fueleconomy.gov in our initial release of MY 2012 data. This is in keeping with the agency's standard operating procedure for all cars and light trucks. Lamborghini's submission of this information was premature and they recently informed us that no final decision has been made on the production of an Aventador Roadster. As such, on June 2, 2011, they asked EPA to pull that particular model from www.fueleconomy.gov, which we did. Thus in both cases, EPA acted based on specific requests from the manufacturer.

Please let me know your thoughts. Thanks!

Best regards

Christoph

Dr. Christoph Kohnen

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4201
Cell: (248) 408-7548
FAX: (248) 754-4207
E-Mail: christoph.kohnen@vw.com

-----Original Message-----

From: Cohen.Justin@epamail.epa.gov [mailto:Cohen.Justin@epamail.epa.gov]
Sent: Monday, June 06, 2011 12:26 PM
To: Kohnen, Christoph (VWGoA); Thomas, Richard (EEO)
Cc: Simon.Karl@epamail.epa.gov; [Wehrly.Linc@epamail.epa.gov](mailto>Wehrly.Linc@epamail.epa.gov)
Subject: Posting of 2012 Lamborghini Aventador Roadster

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Justin Cohen
U.S. Environmental Protection Agency
Office of Transportation and Air Quality
phone: (202) 564-1643
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To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=Matt Spears/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=Matt Spears/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=Matt Spears/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=Matt Spears/OU=AA/O=USEPA/C=US@EPA[]; N=Matt Spears/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 9/28/2011 5:17:01 PM
Subject: Mtg with VW Audi: PHEV fuel economy, labeling and misc certification room change to N66

The VW meeting thursday afternoon has moved to N66. Matt Spears asked to trade rooms with us since they have an all day event in 126.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/6/2011 4:32:45 PM

Subject: VW Pre-Cert mtg

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]
Cc: CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Mon 8/22/2011 9:18:56 PM
Subject: Mtg with VW Audi: PHEV fuel economy, labeling and misc certification

We have some folks visiting the US for a number of meetings, and would like to use the opportunity to discuss PHEV fuel economy and labeling, and other certification/emission testing topics. We would like about 2 hours in the afternoon.

Best regards,
Len

To: "Len Kata" [leonard.kata@vw.com]
From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US
Sent: Fri 4/24/2009 4:36:56 PM
Subject: Re: Norbert Krause Return to Germany

Thanks Len. I agree. I'll be sure to meet with Norbert when he's here next week.

From: "Kata, Leonard" [Leonard.Kata@vw.com]
Sent: 04/24/2009 11:41 AM AST
To: Linc Wehrly
Subject: Norbert Krause Return to Germany

Hello Linc:

I recall that you mentioned being interested if there was some type of send-off gathering for Norbert. It turns out that Norbert is hosting his own going-away dinner. I am a little uncomfortable asking him to invite others when he is the one doing the inviting. As far as I know, it is pretty much just his staff.

Norbert's last week is next week, but I understand that he is in Ann Arbor on Tuesday April 28, for a meeting with EPA (Tom Ball, I think). Perhaps this might be an opportunity for you to say good-bye. Sorry about the short notice.

Best regards,

Len

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: []
Bcc: []
From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US
Sent: Wed 10/14/2009 8:35:30 PM
Subject: RE: Volkswagen Follow-Up Meeting

We'll do it at 10:00 am. See you then.

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA
Cc: David Good/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA
Date: 10/14/2009 11:13 AM
Subject: RE: Volkswagen Follow-Up Meeting

Hi Linc:

Thanks for the quick response. I propose 10:00 a.m. to 12:00 p.m. That would allow Juergen time to make a flight back to Germany later that day. If this is not convenient, there are evening flights too. I think that we have some flexibility on the time (a bit earlier or a bit later).

Best regards,

Len

Leonard W. Kata
Manager
Emission Regulations and Certification
Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4204
Cell: (248) 797-3886
FAX: (248) 754-4207
E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]
Sent: Wednesday, October 14, 2009 8:50 AM

To: Kata, Leonard
Cc: Good.David@epamail.epa.gov; Reineman.Martin@epamail.epa.gov
Subject: Re: Volkswagen Follow-Up Meeting

Len,

November 2, 2009 should work. Do you have a preferred time?

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA, David Good/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA
Date: 10/13/2009 03:54 PM
Subject: Volkswagen Follow-Up Meeting

To all:

As you may recall, at our September 24, 2009 meeting, we raised the issue of certification procedures for fuel fired heaters (FFH). At that time, EPA indicated that they were not prepared to approve the proposed procedure. Mr. Juergen Peter, who had joined the discussion by telephone, mentioned that he would be in the U.S. at the end of October, and suggested that we defer further discussion until then.

I would like to check on your availability for this follow-up meeting. Mr. Peter and I will be in California for meetings during the last week of October, so I suggest that we meet on Monday, November 2, 2009, if possible. We think that 2 hours should be sufficient.

A graphic describing the basic procedure was attached to the hand-outs from our September 24, 2009 meeting.

Best regards,

Len

Leonard W. Kata
Manager
Emission Regulations and Certification
Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road

Auburn Hills, MI 48326
Phone: (248) 754-4204
Cell: (248) 797-3886
FAX: (248) 754-4207
E-Mail: leonard.kata@vw.com

To: "Johnson, Stuart" [Stuart.Johnson@vw.com]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
Bcc: []
From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US
Sent: Fri 2/5/2010 3:55:55 PM
Subject: Re: FW:

Stuart,

Sorry I haven't had a chance to return your call. I'm providing some feedback from our engineer who has been in charge of the EPA dioxin test program and the main reviewer of your report. Please let me know if you have any comments or questions. his comments are below:

VW's sample train set up was not ideal and it wasn't clear if they used isotope dilution theory to check for sample loss and in the final concentration determination. Also it is not clear if their results presented in pg/m3 are m3 of exhaust flow or m3 of exhaust sampled. We would like to see pg/m3 of exhaust flow. Also they should present the results in pg/mi.

I would like the above issues addressed before we sign off on the results, but I do think that in the end their results are what we would expect based on our in-house test program and what we have seen coming out of other test programs.

Thanks,
Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Johnson, Stuart" <Stuart.Johnson@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 12/21/2009 03:31 PM
Subject: FW:

Hello Linc,

Attached please find the dioxin report we discussed earlier today.
Please let me know if you have any questions.

If we don't talk have a good holiday.

Best Regards,

Stuart
[attachment "20091221123434762.pdf" deleted by Linc Wehrly/AA/USEPA/US]

Roadload

Roadload coefficients derivation

- Track tests conducted where?
- What methodology is used – SAE, ISO procedures?
- Describe how coastdown vehicles are prepared/inspected
- At what point(s) in the development process are vehicles coasted down?
- What is the target vehicle mileage for coastdown testing?

Roadload Modeling

- Explain how your modeling process, if used, supplements actual road coastdown results
- How is the modeling validated?

Roadload Validation

- Do you validate results from pre-production prototype vehicles using production vehicles?
- If so, what do you observe statistically, if quantified?
- If you observe offsets, what do you do?
- What is the best metric for comparing roadload? RLHp at 50 mph? Integrated force or energy over standardized EPA drive cycles?
- Do you QC check roadload coefficients for abnormal looking results? How?

Roadload Benchmarking

- Do you conduct coastdown testing on competitor's vehicles?
- If so, can you share any observations in a confidential manner?

Drive Trace Analysis

- Describe your video driver's aid instrumentation – e.g. how it differs from what EPA uses
- Describe how you instruct drivers – e.g. follow CFR language stating follow the trace without excessive throttle movement?
- Do you use methods to audit/evaluate driving? If so, please describe them.
- Do you use an energy analysis to relate summed energy (or horsepower) to fuel economy when comparing fuel economy results from your lab to EPA?

General Correlation

- Do you participate in recurring inter-lab correlation programs?
- Describe the program and how you use the results

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US
Sent: Thur 4/22/2010 8:46:40 PM
Subject: RE: Road Load Determination Discussion
<mailto:Wehrly.Linc@epamail.epa.gov>

Len,

Let's pick June 2 at 9:30 am. Let me know if this will be OK.

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA
Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, Jim Snyder/AA/USEPA/US@EPA
Date: 04/21/2010 05:52 PM
Subject: RE: Road Load Determination Discussion

Hi Linc:

After discussion with our colleagues, we propose the following meeting dates and times:

Wednesday, June 2, 2010 at 09:30, or
Wednesday, June 9, 2010 at 09:30

I expect that two people will attend from Germany. With one or two of us from the local office, the total would be three or four people.

Please let me know if one of these dates works.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office

Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]
Sent: Friday, April 16, 2010 12:42 PM
To: Kata, Leonard
Cc: Kohnen, Christoph (VWGoA); Snyder.Jim@epamail.epa.gov
Subject: RE: Road Load Determination Discussion

Len,

Thanks for the reply. June would be fine. Why don't you propose a date and time.

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>
To: Linc Wehrly/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA, "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>
Date: 04/16/2010 11:23 AM
Subject: RE: Road Load Determination Discussion

Hi Linc:

Regarding the meeting to discuss road load determination; I have forwarded the request to my colleagues overseas.

My understanding from speaking with Jim Snyder, is that EPA would prefer to have participation on the part of those directly involved in the road load determination process. In any case, there are currently a number of commitments for previously-scheduled meetings and holidays that take place between now and the end of May 2010. Therefore, we propose to meet in June 2010 (with the exception of the week of June 14, 2010).

Please let me know if this will work for you.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]
Sent: Friday, April 02, 2010 2:46 PM
To: Kata, Leonard
Subject: Road Load Determination Discussion

Len,

As we begin the process of implementing the new light-duty GHG regulations, we have been reviewing our current compliance practices to see where we need to make improvements. One of the areas that stands out is coast down testing and road load determination. We would like to meet with VW to discuss your current and past road load determination practices, so that we can get a better understand of your process. I'm attaching a list of questions that we would like to discuss. I know this can be a broad subject and we may not be able to address everything in a single meeting, so we may need to schedule some follow-up meetings if necessary. We were thinking the initial meeting would be about two hours. We were hoping to schedule this meeting sometime in the next several weeks.

Please let me know when would be a good time for you to meet. Let me know if you have any questions.

Thanks,
Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David
Good/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc
Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin
Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen
Healy/OU=AA/O=USEPA/C=US@EPA;CN=William
Ott/OU=AA/O=USEPA/C=US@EPA;William.Rodgers@vw.com[]; N=David
Good/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
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Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Linc
Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin
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Ott/OU=AA/O=USEPA/C=US@EPA;William.Rodgers@vw.com[]; N=William
Ott/OU=AA/O=USEPA/C=US@EPA;William.Rodgers@vw.com[]; illiam.Rodgers@vw.com[]
Cc: Leonard.Kata@vw.com;michael.giles@vw.com[]; ichael.giles@vw.com[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 4/4/2012 2:25:28 PM
Subject: VW Group - Audi A8 w/Start/Stop and Cyl Deactivation Test Drive
william.rodgers@vw.com

I reserved a room in case we want an pre-drive intro but primary a test drive opportunity of the Audi S/S system .

Hello Jim,

We would like to schedule time at your facility on Tuesday afternoon May 8th to allow you and EPA staff to test drive a 2013 Audi A8 4.0L V8 equipped with Start-Stop and Cylinder Deactivation technologies. We plan to have Audi Engineers available during the time of the test drives to answer any questions that you or other staff may have. Please let us know if this date is acceptable and what block of time will work best for you. As you know, Audi representatives will already be at EPA for confirmatory testing the morning of May 8 and 9th so either afternoon is acceptable for us. An alternative might be Monday May 7th after we deliver the test vehicle but the fore mentioned dates are preferred.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN Group of America, Inc.
Engineering and Environmental Office

3800 Hamlin Rd.

Auburn Hills, MI 48436

United States

office (248) 754-4219

fax (248) 754-4207

william.rodgers@vw.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Schmidt, Oliver (EEO)" [Oliver.Schmidt@vw.com]; inc Wehrly/AA/USEPA/US@EPA; Joel Ball/AA/USEPA/US@EPA; Joel Dalton/AA/USEPA/US@EPA; Stephen Healy/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; David A Wright/AA/USEPA/US@EPA; William Ott/AA/USEPA/US@EPA[]; oel Ball/AA/USEPA/US@EPA; Joel Dalton/AA/USEPA/US@EPA; Stephen Healy/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; David A Wright/AA/USEPA/US@EPA; William Ott/AA/USEPA/US@EPA[]; oel Dalton/AA/USEPA/US@EPA; Stephen Healy/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; David A Wright/AA/USEPA/US@EPA; William Ott/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; David A Wright/AA/USEPA/US@EPA; William Ott/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA; David A Wright/AA/USEPA/US@EPA; William Ott/AA/USEPA/US@EPA[]; avidA Wright/AA/USEPA/US@EPA; William Ott/AA/USEPA/US@EPA[]; illiam Ott/AA/USEPA/US@EPA[]
Cc: "Dorer, Frank, Dr. (EAES/3)" [frank.dorer@volkswagen.de]; Vieser, Steffen (I/EA-83)" [Steffen.Vieser@AUDI.DE]; im Snyder/AA/USEPA/US@EPA[]
From: "Kata, Leonard (EEO)"
Sent: Thur 5/17/2012 9:22:56 PM
Subject: VW and EPA Meeting - MPI/FSI Fuel Injection System

When: Wednesday, May 30, 2012 8:00 AM-9:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where: Online Meeting

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*

To all:

I have scheduled an online meeting to discuss the Volkswagen Group MPI/FSI Fuel Injection System. If this time is not acceptable or you cannot join this meeting through the internet connection provided, please let me know.

Jim:

I have added the names that you mentioned.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com<mailto:leonard.kata@vw.com>

.....

Join online meeting<<https://join.vw.com/leonard.kata/76929Z78>>
<https://join.vw.com/leonard.kata/76929Z78>

Join by Phone

248-754-6400

855-858-8080

Find a local number<<https://dialin.vw.com>>

Conference ID: Non-Responsive

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meeting?<<http://r.office.microsoft.com/r/rlidOC10?clid=1033&p1=4&p2=1041&pc=oc&ver=4&subver=0&bld=7185&bldver=0>>
[!OC([1033])!]
.....

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;leonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; liver.schmidt@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;stuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; tuart.johnson@vw.com;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=DavidA Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[]; N=William Ott/OU=AA/O=USEPA/C=US@EPA[]

From: CN=David Good/OU=AA/O=USEPA/C=US

Sent: Tue 8/7/2012 4:06:59 PM

Subject: VW/EPA mtg - Merger of VW & Porsche

To: DavidA Wright/AA/USEPA/US@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA[]
From: "Giles, Michael (EEO)"
Sent: Thur 8/23/2012 12:05:06 PM
Subject: RE: Request for US06 Drive Trace

David,

I have forwarded your request to our factory and will reply with the information as soon as it arrives.

Regards,

Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, August 22, 2012 3:54 PM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: Request for US06 Drive Trace

Michael,

EPA is requesting a 10 Hz US06 drive trace file for the following test number:

Mfr. Vehicle ID Test Date Manuf. Test Number
Audi VW465 790007/09 12/09/11 CADX10019487

EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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To: CN=DavidA Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com[]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com[]
Cc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 9/11/2012 11:10:44 PM
Subject: Volkswagen Meeting w/EPA -evap emission testing for future advanced technology vehicles

Hello Jim:

As you know, we have some vehicles at EPA next week for confirmatory testing. There are some colleagues from VWAG Germany that will accompany the test vehicles. This includes Mr. Juergen Peter and Ms. Hannah Schlueter. I have been asked if it would be possible to have a brief, perhaps one hour, meeting with you and other EPA staff, while Mr. Peter and Ms. Schlueter are in Ann Arbor. The topic would concentrate on emission testing, including evaporative emission testing for future advanced technology vehicles.

My proposal would be September 20 or 21, 2012, late morning or early afternoon. Please let me know if you agree to meet with us and what time may be most convenient for you.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204


Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Giles, Michael (EEO)" [michael.giles@ww.com]
Cc: CN=DavidA Wright/OU=AA/O=USEPA/C=US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 9/27/2012 4:56:00 PM
Subject: Jetta hybrid results
[2013 jetta hybrid results.pdf](#)

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

0212T

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2012-0257-012			Vehicle ID: 361 730 136/13				
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">  </div> <div style="width: 65%;"> <p>Test Information</p> <p>Test Date: 9/26/2012</p> <p>Key Start / Hot Soak: 08:03:39 / 09:53</p> <p>Fuel Container ID: F00023</p> <p>Fuel Type: 61 Tier 2 Cert Test Fuel</p> <p>Test Procedure: 21.04 Fed Fuel 2-day Exhaust (CAN LOAD)</p> <p>Calculation Method: Gasoline</p> <p>Pretest Remarks:</p> </div> <div style="width: 20%;"> <p>MFR Name: VOLKSWAGEN</p> <p>MFR Codes: 590 VWX</p> <p>Config #: 00</p> <p>Transmission: AUTO</p> <p>Shift Schedule: A09980005</p> <p>Beginning Odometer: 009468.0 KM</p> <p>Drive Schedule: ftp4bag</p> <p>Soak Period: 20.2 hours</p> </div> </div>							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	6.005	19.678	0.805	0.809	2.445		
Ambient	3.025	0.381	0.017	0.047	2.128		
Net Concentration	3.164	19.320	0.789	0.765	0.445	2.675	
Remarks:							
Phase 2							
Sample	3.067	1.963	0.008	0.298	2.124		
Ambient	2.911	0.398	0.017	0.046	2.104		
Net Concentration	0.221	1.574	-0.009	0.253	0.067	0.147	
Remarks:							
Phase 3							
Sample	3.352	11.617	0.184	0.713	2.296		
Ambient	2.887	0.521	0.016	0.045	2.103		
Net Concentration	0.619	11.124	0.169	0.670	0.304	0.285	
Remarks:							
Phase 4							
Sample	2.981	1.525	0.015	0.279	2.126		
Ambient	2.872	0.564	0.008	0.045	2.109		
Net Concentration	0.169	0.973	0.007	0.234	0.060	0.103	
Remarks:							
Results	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC / NMOG</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.030	0.366	0.022	227.8	0.005	0.025 / 0.026	39.169
Phase 2	0.003	0.047	0.000	119.8	0.001	0.002 / 0.002	74.610
Phase 3	0.006	0.210	0.005	198.6	0.003	0.003 / 0.003	44.978
Phase 4	0.003	0.029	0.000	110.4	0.001	0.002 / 0.002	80.995
Weighted	0.00921	0.15246	0.00603	160.978	0.00247	0.0069 / 0.0071	
(NMOG=1.04xNMHC)							
Fuel Economy	<u>Gasoline MPG</u>	<u>Dyno Settings</u>					<u>Dyno #:</u> D002
Phase 1	39.08						Inertia: 3625
Phase 2	74.44						EPA Set Co A: 7.3499999
Phase 3	44.88						EPA Set Co B: 0.0141
Phase 4	80.81	<u>1% SOC Limit</u>	<u>Act SOC A-hr</u>	<u>Sys Nom Volts</u>	<u>Charge State</u>	EPA Set Co C: 0.01545	
		0.4107	0.022	220.0	Pass		
Weighted	55.36						Emiss-Bench: D002

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2012-0257-012

Vehicle ID: 361 730 136/13

Results



	<u>HC-FID</u> (grams)	<u>CO</u> (grams)	<u>NOx</u> (grams)	<u>CO2</u> (grams)	<u>CH4</u> (grams)	<u>NMHC</u> (grams)	<u>Meth Response</u>
Phase 1	0.106	1.311	0.080	815.6	0.017	0.090	1.098
Phase 2	0.013	0.183	0.000	462.7	0.004	0.008	
Phase 3	0.021	0.754	0.017	713.5	0.012	0.010	
Phase 4	0.010	0.113	0.001	427.9	0.004	0.006	

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.96	28.96	28.96	28.96
Avg Cell Temp (degF)	75.17	75.15	75.23	75.11
Dew Point (degF)	49.43	49.34	49.43	49.43
Specific Humidity (grains/lbm)	54.17	53.98	54.17	54.17
NOx Corr Factor	0.9108	0.9101	0.9108	0.9108
CO2 Dilution Factor	16.515	44.909	18.746	48.01
CFV Vmix (scf @68F)	2057.95	3524.63	2054.63	3523.71
CVS Flow Rate Avg (scfm)	242.97	240.29	242.86	242.99
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	508.21	870.10	507.60	870.10
Distance (miles)	3.581	3.861	3.593	3.875
Bag Analysis Time (secs)	74.9	87.7	74.5	75.6

MFR Test Results

for Procedure 21 Federal fuel 2-day exhaust (w/can load)

<u>MFR Number</u>	<u>HC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	<u>NonMeth HC</u>
1E+07	0.007	0.178	0.0061	155	0	0.0046

Odometer
9082 K

MPG
57.2


MPG is 3.33 % higher than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

QERT

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2012-0257-011			Vehicle ID: 361 730 136/13				
Test Information		Test Date: 9/26/2012		MFR Name: VOLKSWAGEN			
		Key Start: 09:50:26		MFR Codes: 590 VWX			
		Fuel Container ID: F00023		Config #: 00			
		Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO			
		Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011			
		Calculation Method: Gasoline		Beginning Odometer: 009492.0 KM			
		Pretest Remarks: ODO in kilometers		Drive Schedule: hwfet_hwfet			
							
Bag Data							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.097	12.737	0.034	0.926	2.017		
Ambient	3.071	1.194	0.024	0.047	2.121		
Net Concentration	0.238	11.626	0.012	0.882	0.042	0.191	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Results							
	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC / NMOG</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.001	0.115	0.000	136.8	0.000	0.001 / 0.001	65.327
(NMOG=1.04xNMHC)							
Fuel Economy							
	<u>Gasoline MPG</u>	<u>Coastdown secs:</u>	23.66	<u>Dyno Settings</u>	<u>Dyno #:</u> D002		
Phase 1	65.18		23.68		Inertia: 3625		
			23.73		EPA Set Co A: 7.3499999		
					EPA Set Co B: 0.0141		
					EPA Set Co C: 0.01545		
	<u>1% SOC Limit</u>	<u>Act SOC A-hr</u>	<u>Sys Nom Volts</u>	<u>Charge State</u>			
	0.2408	0.1246	220.0	Pass			
			23.69		Emiss-Bench: D002		
v120518 - d002 EPAVDAEm120926092129 Page 1 of 2 Print Time 26-Sep-2012 15:27							

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2012-0257-011

Vehicle ID: 361 730 136/13

Results



	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	0.012	1.179	0.002	1405.4	0.002	0.010	1.098

Test Conditions

	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	28.97			
Avg Cell Temp (degF)	75.17			
Dew Point (degF)	49.43			
Specific Humidity (grains/lbm)	54.13			
NOx Corr Factor	0.9107			
CO2 Dilution Factor	14.451			
CFV Vmix (scf @68F)	3075.25			

CVS Flow Rate Avg (scfm) 241.20

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.01
Distance (miles)	10.275
Bag Analysis Time (secs)	75.0

MFR Test Results

for Procedure 3 HWFE

<u>MFR Number</u>	<u>HC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	<u>NonMeth HC</u>
1E+07	0.0016	0.141	0.0077	134	0	0.001

Odometer
9106 K

MPG
66.2


MPG is 1.57 % higher than EPA MPG


MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

CERT

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2012-0257-013		Vehicle ID: 361 730 136/13					
	Test Date: 9/26/2012		MFR Name VOLKSWAGEN				
	Key Start: 10:38:19		MFR Codes: 590 VWX				
	Fuel Container ID: F00023		Config #: 00				
	Fuel Type: 61 Tier 2 Cert Test Fuel		Transmission: AUTO				
	Test Procedure: 89 us062bag (us06warmup_2bagus06)		Shift Schedule: A09980041				
	Calculation Method: Gasoline		Beginning Odometer: 009533.0 KM				
Pretest Remarks: odo in kilometers		Drive Schedule: us06warmup_2bagus06					
Bag Data							
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>
		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Phase 1							
	Sample	3.340	20.247	1.838	0.886	2.122	
	Ambient	2.946	0.512	0.006	0.046	2.084	
	Net Concentration	0.589	19.769	1.832	0.842	0.175	0.396
Remarks:							
Phase 2							
	Sample	3.599	76.308	0.503	0.983	2.257	
	Ambient	2.875	0.561	0.015	0.046	2.086	
	Net Concentration	0.936	75.788	0.488	0.940	0.325	0.579
Remarks:							
Phase 3							
	Sample						
	Ambient						
	Net Concentration						
Remarks:							
Phase 4							
	Sample						
	Ambient						
	Net Concentration						
Remarks:							
Results							
		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC / NMOG</u>
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
	Phase 1	0.008	0.543	0.075	363.9	0.003	0.005 / 0.006
	Phase 2	0.006	0.914	0.009	178.1	0.002	0.003 / 0.004
	Composite	0.00613	0.83125	0.02364	219.496	0.00236	(NMOG=1.04xNMHC) 0.0039 / 0.0040
Fuel Economy							
		<u>Gasoline MPG</u>	<u>Dyno Settings</u>				<u>Dyno #:</u> D002
	Phase 1	24.47					Inertia: 3625
	Phase 2	49.73					EPA Set Co A: 7.3499999
							EPA Set Co B: 0.0141
							EPA Set Co C: 0.01545
			<u>1% SOC Limit</u>	<u>Act SOC A-hr</u>	<u>Sys Nom Volts</u>	<u>Charge State</u>	
			0.3026	-0.1143	220.0	Pass	
	Composite	40.52					Emiss-Bench: D002
v120518 - d002 EPAVDAEm120926101444 Page 1 of 2 FRONTAIR DEFENSE A/C ALDOPHIN Print Time 26-Sep-2012 15:29							

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2012-0257-013				Vehicle ID: 361 730 136/13			
Results 	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	<u>Meth Response</u>
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.098
Phase 1	0.014	0.974	0.135	652.3	0.005	0.010	
Phase 2	0.035	5.708	0.055	1112.3	0.014	0.022	
Test Conditions							
	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>			
Barometer (inHg)	28.99	28.99					
Avg Cell Temp (degF)	74.88	75.49					
Dew Point (degF)	49.33	49.43					
Specific Humidity (grains/lbm)	53.90	54.11					
NOx Corr Factor	0.9098	0.9106					
CO2 Dilution Factor	15.090	13.526					
CFV Vmix (scf @68F)	1494.68	2284.53					
CVS Flow Rate Avg (scfm)	376.34	375.54					
Fan Placement: USO6 Only - One Large Fan - Up - Front							
Phase Time (secs)	130.10	365.00	108.20				
Distance (miles)	1.793	6.247					
Bag Analysis Time (secs)	79.7	265.0					
MFR Test Results for Procedure 90 US06							
<u>MFR Number</u>	<u>HC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	<u>NonMeth HC</u>	
1E+07	0.0015	0.009	0.034	201	0	0.0007	
<u>Odometer</u>	<u>MPG</u>	PM					
9143 K	44.2	0.002					
MPG is 9.09 % higher than EPA MPG							
MFR Lab: Volkswagen AG, Dept EASZ/1							
Dyno: 21							
Fuel: 61 Tier 2 Cert Gasoline							

To: DavidA Wright/AA/USEPA/US@EPA[]
From: "Giles, Michael (EEO)"
Sent: Thur 9/27/2012 6:22:35 PM
Subject: RE: VW Group - Friday Beetle Test Visit
michael.giles@vw.com
juergen.peter@volkswagen.de
hannah.schlueter@volkswagen.de
<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
[image001.gif](#)

Thank you David!

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Thursday, September 27, 2012 2:07 PM
To: Giles, Michael (EEO)
Cc: Schlueter, Hannah (EASZ/1); Jim Snyder; Peter, Juergen (EASZ/1)
Subject: Re: VW Group - Friday Beetle Test Visit

Yes I will be in the office tomorrow morning at 7 am. If you cannot reach me when you arrive, you can also ask to see David VanAmburg. Let me know if you have any other questions.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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To: DavidA Wright/AA/USEPA/US@EPA

Cc: "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>, "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, Jim Snyder/AA/USEPA/US@EPA
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Our colleagues are planning to be at your lab Friday for the start of testing for the Beetle TDI. Our normal lab visit contact person is Vince Mazaitis. We usually need to be there at 7:00 am to see the tests; are you available at this time in case Vince is still out?

Thanks,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, September 12, 2012 8:34 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder; William Ott; Chris Nevers
Subject: RE: Request for US06 Drive Trace

Mike,

Thank you for your response. I am wondering, if per our original request, if the factory has any 10 hz data, or if the only data available are 1 hz?

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Regards,

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e-mail:wright.davida@epa.gov

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734 214-4467
e-mail:wright.davida@epa.gov

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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 08/23/2012 08:05 AM
Subject: RE: Request for US06 Drive Trace

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Regards,
Mike

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Sent: Wednesday, August 22, 2012 3:54 PM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: Request for US06 Drive Trace

Michael,

EPA is requesting a 10 Hz US06 drive trace file for the following test number:

Mfr. Vehicle ID Test Date Manuf. Test Number
Audi VW465 790007/09 12/09/11 CADX10019487

EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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***** [attachment
"Copy of US06_Trace.xlsm" deleted by DavidA Wright/AA/USEPA/US]

To: DavidA Wright/AA/USEPA/US@EPA[]
Cc: Vincent Mazaitis/AA/USEPA/US@EPA[]
From: "Giles, Michael (EEO)"
Sent: Fri 9/28/2012 4:59:50 PM
Subject: RE: VW Group - Friday Beetle Test Visit
michael.giles@vw.com
juergen.peter@volkswagen.de
hannah.schlueter@volkswagen.de
<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
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[image001.gif](#)

Hello David,

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However, if it is possible to obtain any form of early report for partial results such as emissions outcome relative to the standards, or fuel economy values, it would be greatly appreciated.

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Mike

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Sent: Thursday, September 27, 2012 2:07 PM
To: Giles, Michael (EEO)
Cc: Schlueter, Hannah (EASZ/1); Jim Snyder; Peter, Juergen (EASZ/1)
Subject: Re: VW Group - Friday Beetle Test Visit

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To: DavidA Wright/AA/USEPA/US@EPA
Cc: "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>, "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, Jim Snyder/AA/USEPA/US@EPA
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Cc: Jim Snyder; William Ott; Chris Nevers
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Mfr. Vehicle ID Test Date Manuf. Test Number
Audi VW465 790007/09 12/09/11 CADX10019487

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***** [attachment

"Copy of US06_Trace.xlsm" deleted by DavidA Wright/AA/USEPA/US]

To: DavidA Wright/AA/USEPA/US@EPA[]
From: "Giles, Michael (EEO)"
Sent: Fri 9/28/2012 5:29:01 PM
Subject: RE: VW Group - Friday Beetle Test Visit
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
juergen.peter@volkswagen.de
hannah.schlueter@volkswagen.de
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<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
[image001.gif](#)

Thanks David.

From: DavidA Wright [<mailto:Wright.DavidA@epamail.epa.gov>]
Sent: Friday, September 28, 2012 1:27 PM
To: Giles, Michael (EEO)
Cc: Vincent Mazaitis
Subject: RE: VW Group - Friday Beetle Test Visit

Mike,

The laboratory performs a review of the test and all preconditioning activities to ensure the test is valid before providing certification with any results. We will forward VW copies of the results, as soon as we receive a copy the results, or, are informed that a preliminary summary is available.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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we heard already (from Vince) that full results

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
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Date: 09/28/2012 01:00 PM
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To: DavidA Wright/AA/USEPA/US@EPA

Cc: "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>, "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, Jim Snyder/AA/USEPA/US@EPA
Date: 09/27/2012 08:54 AM
Subject: VW Group - Friday Beetle Test Visit

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Sent: Wednesday, September 12, 2012 8:34 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder; William Ott; Chris Nevers
Subject: RE: Request for US06 Drive Trace

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734 214-4467
e-mail:wright.davida@epa.gov

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Mfr. Vehicle ID Test Date Manuf. Test Number
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EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

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To: DavidA Wright/AA/USEPA/US@EPA[]
Cc: Vincent Mazaitis/AA/USEPA/US@EPA[]
From: "Giles, Michael (EEO)"
Sent: Mon 10/1/2012 12:17:10 PM
Subject: VW Group
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
michael.giles@vw.com
juergen.peter@volkswagen.de
hannah.schlueter@volkswagen.de
<mailto:Wright.DavidA@epamail.epa.gov>
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Sent: Mon 10/1/2012 8:48:04 PM
Subject: NVFEL PDF Report Request for Beetle
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Hello David,

We now have VERIFY results for the Beetle. However, it would be very helpful if you could also send us a PDF version of the NVFEL reports, especially for the FTP test which contains bag by bag data for all components.

The test numbers are DVWX91001537 and DVWX91001538.

Thank you for your help,

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Sent: Monday, October 01, 2012 8:38 AM
To: Giles, Michael (EEO)
Cc: Vincent Mazaitis
Subject: Re: VW Group

Hi Mike,

We do not release preliminary data, once we have an official result we make sure are informed and able to review the complete results with your staff in Germany. I have a full schedule this afternoon and will be unable to meet with Juergen.

Regards,

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Sent: Tue 10/2/2012 1:00:26 PM
Subject: RE: NVFEL PDF Report Request for Beetle
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William.Rodgers@vw.com
juergen.peter@volkswagen.de
<mailto:Wright.DavidA@epamail.epa.gov>
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The attached files are copies of the FTP (2012_0240_004.pdf) and the HWFE (2012_0240_003.pdf).

(See attached file: 2012_0240_003.pdf)(See attached file: 2012_0240_004.pdf)

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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Vincent Mazaitis/AA/USEPA/US@EPA, "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>
Date: 10/01/2012 04:48 PM
Subject: NVFEL PDF Report Request for Beetle

Hello David,

We now have VERIFY results for the Beetle. However, it would be very helpful if you could also send us a PDF version of the NVFEL reports, especially for the FTP test which contains bag by bag data for all components.

The test numbers are DVWX91001537 and DVWX91001538.

Thank you for your help,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Monday, October 01, 2012 8:38 AM
To: Giles, Michael (EEO)
Cc: Vincent Mazaitis
Subject: Re: VW Group

Hi Mike,

We do not release preliminary data, once we have an official result we make sure are informed and able to review the complete results with your staff in Germany. I have a full schedule this afternoon and will be unable to meet with Juergen.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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addressee only. If you are not an addressee, you are not authorized to read, copy or use this e-mail or any attachment. If you have received this e-mail in error, please destroy it and notify the sender by return mail.

"Giles, Michael (EEO)" ---10/01/2012 08:17:15 AM---Hello David, Just a quick note to reiterate our wish to review results for the Beetle as soon as pos

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Vincent Mazaitis/AA/USEPA/US@EPA
Date: 10/01/2012 08:17 AM
Subject: VW Group

Hello David,

Just a quick note to reiterate our wish to review results for the Beetle as soon as possible. The results must go back to Germany (+6 hours), hence our eagerness to see data.

Also, Juergen mentioned to me this morning that he was tentatively planning to a quick visit there around noon if you are available. Please keep us posted on status.

Thanks,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Friday, September 28, 2012 1:27 PM
To: Giles, Michael (EEO)
Cc: Vincent Mazaitis
Subject: RE: VW Group - Friday Beetle Test Visit

Mike,

The laboratory performs a review of the test and all preconditioning activities to ensure the test is valid before providing certification with any results. We will forward VW copies of the results, as soon as we receive a copy the results, or, are informed that a preliminary summary is available.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---09/28/2012 01:00:23 PM---Hello David, Just a follow up to my voice message - we heard already (from Vince) that full results

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Vincent Mazaitis/AA/USEPA/US@EPA
Date: 09/28/2012 01:00 PM
Subject: RE: VW Group - Friday Beetle Test Visit

Hello David,

Just a follow up to my voice message - we heard already (from Vince) that full results will not be available for the Beetle TDI test until early next week due to extra measurement time for particulates.

However, if it is possible to obtain any form of early report for partial results such as emissions outcome relative to the standards, or fuel economy values, it would be greatly appreciated.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Thursday, September 27, 2012 2:07 PM
To: Giles, Michael (EEO)
Cc: Schlueter, Hannah (EASZ/1); Jim Snyder; Peter, Juergen (EASZ/1)
Subject: Re: VW Group - Friday Beetle Test Visit

Yes I will be in the office tomorrow morning at 7 am. If you cannot reach me when you arrive, you can also ask to see David VanAmburg. Let me know if you have any other questions.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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attachment. If you have received this e-mail in error, please destroy it and notify the sender by return mail.

"Giles, Michael (EEO)" ---09/27/2012 08:54:38 AM---Hello David, I understand you are now our backup for Jim, who will be out beginning Friday.

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>, "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>, Jim Snyder/AA/USEPA/US@EPA
Date: 09/27/2012 08:54 AM
Subject: VW Group - Friday Beetle Test Visit

Hello David,

I understand you are now our backup for Jim, who will be out beginning Friday.

Our colleagues are planning to be at your lab Friday for the start of testing for the Beetle TDI. Our normal lab visit contact person is Vince Mazaitis. We usually need to be there at 7:00 am to see the tests; are you available at this time in case Vince is still out?

Thanks,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, September 12, 2012 8:34 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder; William Ott; Chris Nevers
Subject: RE: Request for US06 Drive Trace

Mike,

Thank you for your response. I am wondering, if per our original request, if the factory has any 10 hz data, or if the only data available are 1 hz?

EPA may be requesting additional drive trace data from certification tests in the future and will be requesting the data in the format specified by SAEJ2951. Please do not hesitate to contact me if you require additional information or have further questions.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road

Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---09/05/2012 08:36:55 AM---Hello David, Please find attached the drive trace that the factory provided for this test.

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 09/05/2012 08:36 AM
Subject: RE: Request for US06 Drive Trace

Hello David,

Please find attached the drive trace that the factory provided for this test.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Thursday, August 23, 2012 9:09 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: RE: Request for US06 Drive Trace

Mike,

Thanks for your reply, I look forward to receiving the data once it has been provided by the factory. Please let me know if you have any other questions.

Regards,

David A. Wright

U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---08/23/2012 08:05:42 AM---David, I have forwarded your request to our factory and will reply with the information as soon as i

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 08/23/2012 08:05 AM
Subject: RE: Request for US06 Drive Trace

David,

I have forwarded your request to our factory and will reply with the information as soon as it arrives.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, August 22, 2012 3:54 PM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: Request for US06 Drive Trace

Michael,

EPA is requesting a 10 Hz US06 drive trace file for the following test number:

Mfr. Vehicle ID Test Date Manuf. Test Number
Audi VW465 790007/09 12/09/11 CADX10019487

EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality

Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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***** [attachment

"Copy of US06_Trace.xlsx" deleted by DavidA Wright/AA/USEPA/US]

To: CN=Bill Pidgeon/OU=AA/O=USEPA/C=US@EPA;CN=Chris
 Nevers/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
 Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
 Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
 N=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=DavidA
 Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
 Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
 N=DavidA Wright/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
 Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
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 N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Joel
 Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
 Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
 N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc
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 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
 N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Tom
 Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA[];
 N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=William
 Ott/OU=AA/O=USEPA/C=US@EPA[]; N=William Ott/OU=AA/O=USEPA/C=US@EPA[]
Cc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 12/13/2012 11:24:24 PM
Subject: VW Pre-Cert Mtg

To: michael.giles@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=DavidA Wright/OU=AA/O=USEPA/C=US
Sent: Wed 8/22/2012 7:53:52 PM
Subject: Request for US06 Drive Trace

Michael,

EPA is requesting a 10 Hz US06 drive trace file for the following test number:

Mfr.	Vehicle ID	Test Date	Manuf. Test Number
Audi	VW465 790007/09	12/09/11	CADX10019487

EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=DavidA Wright/OU=AA/O=USEPA/C=US
Sent: Thur 8/23/2012 1:09:20 PM
Subject: RE: Request for US06 Drive Trace

Mike,

Thanks for your reply, I look forward to receiving the data once it has been provided by the factory. Please let me know if you have any other questions.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 08/23/2012 08:05 AM
Subject: RE: Request for US06 Drive Trace

David,

I have forwarded your request to our factory and will reply with the information as soon as it arrives.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, August 22, 2012 3:54 PM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: Request for US06 Drive Trace

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David A. Wright
U.S. EPA - OTAQ
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2565 Plymouth Road
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To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=William Ott/OU=AA/O=USEPA/C=US@EPA;CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA[]; N=William Ott/OU=AA/O=USEPA/C=US@EPA;CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA[]; N=Chris Nevers/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=DavidA Wright/OU=AA/O=USEPA/C=US
Sent: Wed 9/12/2012 12:33:52 PM
Subject: RE: Request for US06 Drive Trace
michael.giles@vw.com
<mailto:Wright.DavidA@epamail.epa.gov>
(embedded image)

Mike,

Thank you for your response. I am wondering, if per our original request, if the factory has any 10 hz data, or if the only data available are 1 hz?

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Regards,

David A. Wright
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Compliance Division, Light-Duty Vehicle Center
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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 09/05/2012 08:36 AM
Subject: RE: Request for US06 Drive Trace

Hello David,

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Regards,

Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Thursday, August 23, 2012 9:09 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: RE: Request for US06 Drive Trace

Mike,

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Regards,

David A. Wright
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e-mail:wright.davida@epa.gov

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Subject: RE: Request for US06 Drive Trace

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Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, August 22, 2012 3:54 PM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: Request for US06 Drive Trace
Michael,

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EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

Regards,

David A. Wright
U.S. EPA - OTAQ
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e-mail:wright.davida@epa.gov

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***** [attachment

"Copy of US06_Trace.xlsm" deleted by DavidA Wright/AA/USEPA/US]

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: "Schlueter, Hannah (EASZ/1)" [hannah.schlueter@volkswagen.de]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; N=Joel Dalton/OU=AA/O=USEPA/C=US@EPA;"Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]
Bcc: []
From: CN=DavidA Wright/OU=AA/O=USEPA/C=US
Sent: Thur 9/20/2012 1:09:45 PM
Subject: RE: Volkswagen Meeting w/EPA -evap emission testing for future advanced technology vehicles

Len,

The meeting is still scheduled for 1 pm and Jim and Joel are here today.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, DavidA Wright/AA/USEPA/US@EPA, Joel Dalton/AA/USEPA/US@EPA
Cc: "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>, "Schlueter, Hannah (EASZ/1)" <hannah.schlueter@volkswagen.de>
Date: 09/20/2012 08:56 AM
Subject: RE: Volkswagen Meeting w/EPA -evap emission testing for future advanced technology vehicles

Hello all:

I have tried to reach Jim and Joel and left messages with each. I would like to verify the status of this meeting scheduled for today. If necessary, we can delay until tomorrow.

Please let me know since I would require about 1 hour+ travel time to Ann Arbor.

Regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Monday, September 17, 2012 10:58 AM
To: Wright.DavidA@epamail.epa.gov; Dalton.Joel@epamail.epa.gov; Kata, Leonard (EEO)
Subject: Volkswagen Meeting w/EPA -evap emission testing for future advanced technology vehicles

Len there is a slight chance that I won't be back by thursday for this mtg but I will be in Friday. In case there is a change, Dave's number is 214-4467 and Len's number is 248-754-4204.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: "Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; N=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;"Rodgers, William (EEO)" [William.Rodgers@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=DavidA Wright/OU=AA/O=USEPA/C=US
Sent: Mon 10/1/2012 9:35:23 PM
Subject: Re: NVFEL PDF Report Request for Beetle
[2012_0240_003.pdf](#)
[2012_0240_004.pdf](#)
[michael.giles@vw.com](#)
[mailto:Wright.DavidA@epamail.epa.gov](#)
[michael.giles@vw.com](#)
[mailto:Wright.DavidA@epamail.epa.gov](#)
[michael.giles@vw.com](#)
[juergen.peter@volkswagen.de](#)
[hannah.schlueter@volkswagen.de](#)
[mailto:Wright.DavidA@epamail.epa.gov](#)
[michael.giles@vw.com](#)
[mailto:Wright.DavidA@epamail.epa.gov](#)
[michael.giles@vw.com](#)
[mailto:Wright.DavidA@epamail.epa.gov](#)
(embedded image)
(embedded image)
(embedded image)
(embedded image)
(embedded image)

The attached files are copies of the FTP (2012_0240_004.pdf) and the HWFE (2012_0240_003.pdf).

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA

Cc: Vincent Mazaitis/AA/USEPA/US@EPA, "Rodgers, William (EEO)" <William.Rodgers@vw.com>, "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>
Date: 10/01/2012 04:48 PM
Subject: NVFEL PDF Report Request for Beetle

Hello David,

We now have VERIFY results for the Beetle. However, it would be very helpful if you could also send us a PDF version of the NVFEL reports, especially for the FTP test which contains bag by bag data for all components.

The test numbers are DVWX91001537 and DVWX91001538.

Thank you for your help,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Monday, October 01, 2012 8:38 AM
To: Giles, Michael (EEO)
Cc: Vincent Mazaitis
Subject: Re: VW Group

Hi Mike,

We do not release preliminary data, once we have an official result we make sure are informed and able to review the complete results with your staff in Germany. I have a full schedule this afternoon and will be unable to meet with Juergen.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---10/01/2012 08:17:15 AM---Hello David, Just a quick note to reiterate our wish to review results for the Beetle as soon as pos

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Vincent Mazaitis/AA/USEPA/US@EPA

Date: 10/01/2012 08:17 AM
Subject: VW Group

Hello David,

Just a quick note to reiterate our wish to review results for the Beetle as soon as possible. The results must go back to Germany (+6 hours), hence our eagerness to see data.

Also, Juergen mentioned to me this morning that he was tentatively planning to a quick visit there around noon if you are available. Please keep us posted on status.

Thanks,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Friday, September 28, 2012 1:27 PM
To: Giles, Michael (EEO)
Cc: Vincent Mazaitis
Subject: RE: VW Group - Friday Beetle Test Visit
Mike,

The laboratory performs a review of the test and all preconditioning activities to ensure the test is valid before providing certification with any results. We will forward VW copies of the results, as soon as we receive a copy the results, or, are informed that a preliminary summary is available.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---09/28/2012 01:00:23 PM---Hello David, Just a follow up to my voice message - we heard already (from Vince) that full results

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Vincent Mazaitis/AA/USEPA/US@EPA
Date: 09/28/2012 01:00 PM
Subject: RE: VW Group - Friday Beetle Test Visit

Hello David,

Just a follow up to my voice message - we heard already (from Vince) that full results will not be available for the Beetle TDI test until early next week due to extra measurement time for particulates.

However, if it is possible to obtain any form of early report for partial results such as emissions outcome relative to the standards, or fuel economy values, it would be greatly appreciated.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]

Sent: Thursday, September 27, 2012 2:07 PM

To: Giles, Michael (EEO)

Cc: Schlueter, Hannah (EASZ/1); Jim Snyder; Peter, Juergen (EASZ/1)

Subject: Re: VW Group - Friday Beetle Test Visit

Yes I will be in the office tomorrow morning at 7 am. If you cannot reach me when you arrive, you can also ask to see David VanAmburg. Let me know if you have any other questions.

Regards,

David A. Wright

U.S. EPA - OTAQ

Compliance Division, Light-Duty Vehicle Center

2565 Plymouth Road

Ann Arbor, Michigan 48105

734 214-4467

e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---09/27/2012 08:54:38 AM---Hello David, I understand you are now our backup for Jim, who will be out beginning Friday.

From: "Giles, Michael (EEO)" <michael.giles@vw.com>

To: DavidA Wright/AA/USEPA/US@EPA

Cc: "Peter, Juergen (EASZ/1)" <juergen.peter@volkswagen.de>, "Schlueter, Hannah (EASZ/1)"

<hannah.schlueter@volkswagen.de>, Jim Snyder/AA/USEPA/US@EPA

Date: 09/27/2012 08:54 AM

Subject: VW Group - Friday Beetle Test Visit

Hello David,

I understand you are now our backup for Jim, who will be out beginning Friday.

Our colleagues are planning to be at your lab Friday for the start of testing for the Beetle TDI. Our normal lab visit contact person is Vince Mazaitis. We usually need to be there at 7:00 am to see the tests; are you available at this time in case Vince is still out?

Thanks,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, September 12, 2012 8:34 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder; William Ott; Chris Nevers
Subject: RE: Request for US06 Drive Trace
Mike,

Thank you for your response. I am wondering, if per our original request, if the factory has any 10 hz data, or if the only data available are 1 hz?

EPA may be requesting additional drive trace data from certification tests in the future and will be requesting the data in the format specified by SAEJ2951. Please do not hesitate to contact me if you require additional information or have further questions.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
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"Giles, Michael (EEO)" ---09/05/2012 08:36:55 AM---Hello David, Please find attached the drive trace that the factory provided for this test.

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 09/05/2012 08:36 AM
Subject: RE: Request for US06 Drive Trace

Hello David,

Please find attached the drive trace that the factory provided for this test.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Thursday, August 23, 2012 9:09 AM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: RE: Request for US06 Drive Trace
Mike,

Thanks for your reply, I look forward to receiving the data once it has been provided by the factory. Please let me know if you have any other questions.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

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"Giles, Michael (EEO)" ---08/23/2012 08:05:42 AM---David, I have forwarded your request to our factory and will reply with the information as soon as i

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 08/23/2012 08:05 AM
Subject: RE: Request for US06 Drive Trace

David,

I have forwarded your request to our factory and will reply with the information as soon as it arrives.

Regards,
Mike

From: DavidA Wright [mailto:Wright.DavidA@epamail.epa.gov]
Sent: Wednesday, August 22, 2012 3:54 PM
To: Giles, Michael (EEO)
Cc: Jim Snyder
Subject: Request for US06 Drive Trace
Michael,

EPA is requesting a 10 Hz US06 drive trace file for the following test number:

Mfr. Vehicle ID Test Date Manuf. Test Number
Audi VW465 790007/09 12/09/11 CADX10019487

EPA is requesting the data be submitted according to the recommended practice SAEJ2951 Drive Quality Evaluation for Chassis Dynamometer Testing format.

If you have any questions regarding the format or SAEJ2951, please contact me.

Regards,


David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov


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***** [attachment

"Copy of US06_Trace.xlsm" deleted by DavidA Wright/AA/USEPA/US]

cert

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2012-0240-003		Vehicle ID: VW324 10220/13					
	Test Date: 9/28/2012		MFR Name: VOLKSWAGEN				
	Key Start: 09:59:06		MFR Codes: 590 VWX				
	Fuel Container ID: F00022		Config #: 00				
	Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur		Transmission: AUTO				
	Test Procedure: 03 HWFET (hwfetprep_hwfet)		Shift Schedule: A09980011				
	Calculation Method: Diesel		Beginning Odometer: 003994.0 MI				
Pretest Remarks:		Drive Schedule: hwfet_hwfet					
<hr/>							
Bag Data							
	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NonMeth HC</u>	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	9.488 / 9.604	4.666	0.448	0.950	8.021		
Ambient	3.104	0.215	0.025	0.046	2.147		
Net Concentration	6.605 / 6.721	4.467	0.425	0.908	6.027	0.170	
Remarks:							
Phase 2							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 3							
Sample							
Ambient							
Net Concentration							
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks:							
Remarks: <u>This test has particulate results.</u>							
<hr/>							
Results							
	<u>THC / IntTHC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC / NMOG</u>	<u>Vol MPG</u>
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.046	0.062	0.009	196.9	0.048	0.001	51.889
(NMOG=NMHC)							
<hr/>							
Fuel Economy							
	<u>Diesel MPG</u>	<u>Coastdown secs:</u>		<u>Dyno Settings</u>	<u>Dyno #:</u> D329 - FWD		
Phase 1	51.60		17.51		Inertia: 3625		
			17.43		EPA Set Co A: 8.93		
			17.31		EPA Set Co B: 0.1494		
					EPA Set Co C: 0.02109		
			17.41		Emiss-Bench: Mexa 7200die		

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Number: 2012-0240-003				Vehicle ID: VW324 10220/13			
Results	<u>THC / IntTHC</u> (grams)	<u>CO</u> (grams)	<u>NOx</u> (grams)	<u>CO2</u> (grams)	<u>CH4</u> (grams)	<u>NMHC</u> (grams)	<u>Meth Response</u>
 Phase 1	- / 0.470	0.631	0.089	2016.1	0.488	0.012	1.087
 Test Conditions							
	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>			
Barometer (inHg)	29.23						
Avg Cell Temp (degF)	72.25						
Dew Point (degF)	48.41						
Specific Humidity (grains/lbm)	51.63						
NOx Corr Factor	0.9010						
CO2 Dilution Factor	14.078						
CFV Vmix (scf @68F)	4249.39						
Total Vmix (scf@68F)	4285.26						
CVS Flow Rate Avg (scfm)	333.24						
Fan Placement: One Fan - Up - Front							
	Phase Time (secs)	765.10					
	Distance (miles)	10.237					
	Bag Analysis Time (secs)						
MFR Test Results for Procedure 3 HWFE							
<u>MFR Number</u>	<u>HC</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	<u>NonMeth HC</u>	
1E+07	0.0428	0.01	0.002	196	0	0	
<u>Odometer</u>	<u>MPG</u>	PM					
3750 M	51.9	0.001					
MPG is 0.57 % higher than EPA MPG				MFR Lab: Volkswagen AG, Dept EASZ/1			
				Dyno: 21			
				Fuel: 19 Cert Diesel 7-15 ppm Sulfur			

NVFEL Laboratory Test Data						PARTICULATE	
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Information				Vehicle ID: VW324 10220/13			
	Test Number: 2012-0240-003			MFR Name: VOLKSWAGEN			
	Test Date: 9/28/2012			MFR Codes: 590 VWX			
	Key Start: 09:59:06			Config #: 00			
	Fuel Container ID: F00022			Transmission: AUTO			
	Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur			Shift Schedule: A09980011			
	Test Procedure: 03 HWFET (hwfetprep_hwfet)			Beginning Odometer: 003994.0 MI			
Calculation Method: Diesel			Drive Schedule: hwfet_hwfet				
Pretest Remarks:							

All filter weights are corrected for buoyancy.								
Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	445186	146.3467	146.3624	0.01570	3.752	0.367	
	C	445187	146.1236	146.1505	0.02691	6.428	0.628	
Remarks:					Exclude A			
Phase 2								
Remarks:								
Phase 3								
Remarks:								
Phase 4								
Remarks: This test has particulate results.								

Average Results			Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1			0.02131	5.090	0.497
All filter weights are corrected for buoyancy.					

Reference Filter Stability Check			Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	Dyno #: D329 - FWD
2% of Avg Net or 0.01 mg	No.					PASS/FAIL	Inertia: 3625
0.01	1		144.67750	144.67818	0.00068	PASS	EPA Set Co A: 8.93
	2		143.30737	143.30775	0.00039	PASS	EPA Set Co B: 0.1494
							EPA Set Co C: 0.02109
Emissions Bench Mexa 7200dle							

v120518 - d329 EPAVDAEm120928093540
Page 1 of 2
Print Time 01-Oct-2012 14:40

**NVFEL Laboratory Test Data****PARTICULATE**

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data


Test Number: 2012-0240-003

Vehicle ID: VW324 10220/13

<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>
Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp
Pre-test 9/27/12 10:20	1.0011189	022298	72.9	49.5	29.28	NORM @ 09/27/12 00:11:40
Post-test 9/28/12 14:11	1.0011174	022298	71.8	49.3	29.18	NORM @ 09/27/12 21:49:31

<u>Test Conditions</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Phase 4</u>
Barometer (inHg)	29.23			
Avg Cell Temp (degF)	72.25			
Dew Point (degF)	48.41			
Specific Humidity (grains/lbm)	51.63			
NOx Corr Factor	0.9010			
Dilution Factor	14.08			
CFV Vmix (scf @68F)	4249.39			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	17.929			
Sample Volume C (scf @68F)	17.941			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	11.957			
Total Vmix (scf @68F)	4285.26			
Phase Time (sec)	765.10			
Distance (miles)	10.237			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	43.9			
PSU Dil Air B (degC)	40.6			
PSU Dil Air C (degC)	38.5			
PSU Filter A (degC)	48.2			
PSU Filter B (degC)	45.7			
PSU Filter C (degC)	49.3			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	15.0			
PSU Dil Flow C (lpm)	14.8			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

Cert

NVFEL Laboratory Test Data							CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data							
Test Information				Test Data			
 Test Number: 2012-0240-004 Test Date: 9/28/2012 Key Start / Hot Soak: 08:28:53 / 09:44 Fuel Container ID: F00022 Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur Test Procedure: 2 Calculation Method: Diesel Pretest Remarks:				Vehicle ID: VW324 10220/13 MFR Name: VOLKSWAGEN MFR Codes: 590 VWX Config #: 00 Transmission: AUTO Shift Schedule: A09980005 Beginning Odometer: 003983.0 MI Drive Schedule: ftp3bag Soak Period: 22.1 hours			
Bag Data							
	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC	
	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Phase 1							
Sample	28.329 / 28.952	35.639	13.351	0.820	18.685		
Ambient	2.484	0.854	0.104	0.050	2.408		
Net Concentration	25.997 / 26.620	34.838	13.253	0.773	16.425	8.766	
Remarks:							
Phase 2							
Sample	6.237 / 6.275	0.584	1.111	0.470	5.706		
Ambient	2.507	0.339	0.080	0.050	2.443		
Net Concentration	3.817 / 3.855	0.257	1.034	0.422	3.349	0.215	
Remarks:							
Phase 3							
Sample	6.640 / 6.769	0.644	0.239	0.649	6.123		
Ambient	2.490	0.294	0.067	0.049	2.430		
Net Concentration	4.270 / 4.400	0.365	0.174	0.603	3.812	0.257	
Remarks:							
Phase 4							
Sample							
Ambient							
Net Concentration							
Remarks: This test has particulate results.							
Results							
	THC / IntTHC	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.348	0.919	0.530	320.2	0.248	0.114	31.702
Phase 2	- / 0.080	0.011	0.066	278.4	0.081	0.004	36.712
Phase 3	- / 0.057	0.010	0.007	248.3	0.057	0.003	41.178
(NMOG=NMHC)							
Weighted	0.12933	0.19883	0.14598	278.819	0.10891	0.02699	
Fuel Economy							
	Diesel MPG	Dyno Settings					Dyno #: D329 - FWD
Phase 1	31.53						Inertia: 3625
Phase 2	36.51						EPA Set Co A: 8.93
Phase 3	40.95						EPA Set Co B: 0.1494
							EPA Set Co C: 0.02109
Weighted	36.38						Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2012-0240-004

Vehicle ID: VW324 10220/13

Results



	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	
Phase 1	- / 1.247	3.294	1.901	1148.1	0.890	0.410	1.087
Phase 2	- / 0.308	0.042	0.253	1070.5	0.310	0.017	
Phase 3	- / 0.205	0.034	0.025	890.4	0.205	0.012	


Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.22	29.22	29.22	
Avg Cell Temp (degF)	72.40	72.35	72.48	
Dew Point (degF)	51.08	51.21	51.46	
Specific Humidity (grains/lbm)	57.12	57.39	57.93	
NOx Corr Factor	0.9225	0.9236	0.9257	
CO2 Dilution Factor	16.222	28.461	20.609	
CFV Vmix (scf @68F)	2853.41	4871.63	2836.17	
Total Vmix (scf@68F)	2867.56	4895.11	2849.92	
CVS Flow Rate Avg (scfm)	336.62	335.63	335.77	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	508.60	870.90	506.80	
Distance (miles)	3.586	3.844	3.586	
Bag Analysis Time (secs)	1004.5	248.6	135.8	

MFR Test Results

for Procedure 2 CVS 75 and later (w/o can. load)

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
1E+07	0.0983	0.17	0.018	283	0	0.0038
Odometer	MPG	PM				
3739 M	35.9	0.001				
MPG is -1.31 % lower than EPA MPG			MFR Lab: Volkswagen AG, Dept EASZ/1			
			Dyno: 21			
			Fuel: 19 Cert Diesel 7-15 ppm Sulfur			

NVFEL Laboratory Test Data						PARTICULATE		
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data								
		Test Number: 2012-0240-004		Vehicle ID: VW324 10220/13				
		Test Date: 9/28/2012		MFR Name: VOLKSWAGEN				
		Key Start: 08:28:53 / 09:44		MFR Codes: 590 VWX				
		Fuel Container ID: F00022		Config #: 00				
		Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur		Transmission: AUTO				
Test Procedure: 2		Shift Schedule: A09980005				Beginning Odometer: 003983.0 MI		
Calculation Method: Diesel		Drive Schedule: ftp3bag				Soak Period: 22.1 hours		
Pretest Remarks:								
All filter weights are corrected for buoyancy.								
Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	445180	146.3468	146.3592	0.01245	3.978	1.109	
	C	445183	145.2528	145.2600	0.00715	2.290	0.639	
Remarks:						Exclude A		
Phase 2								
	B	445181	144.9195	144.9251	0.00564	1.803	0.469	
	C	445184	143.5234	143.5348	0.01135	3.643	0.948	
Remarks:						Exclude A		
Phase 3								
	B	445182	141.4078	141.4182	0.01034	3.296	0.919	
	C	445185	144.3881	144.3946	0.00654	2.099	0.585	
Remarks:						Exclude A		
Phase 4								
Remarks:						<u>This test has particulate results.</u>		
Average Results					Net Wt mg	Total Mass mg	Total Mass mg / mi	
Phase 1					0.00980	3.134	0.874	
Phase 2					0.00850	2.723	0.708	
Phase 3					0.00844	2.698	0.752	
All filter weights are corrected for buoyancy.								
Weighted All Filters:							0.75475	
Reference Filter Stability Check					Net Wt mg	Stability Check	Dyno #: D329 - FWD	
2% of Avg Net or 0.01 mg		No.	Tare (Pre Wt)	Gross (Post Wt)	mg	PASS/FAIL	Inertia: 3625	
0.01		1	144.67750	144.67884	0.00134	PASS	EPA Set Co A: 8.93	
		2	143.30737	143.30760	0.00024	PASS	EPA Set Co B: 0.1494	
							EPA Set Co C: 0.02109	
Emissions Bench Mexa 7200dle								
v120518 - d329 EPAVDAEm120928080610				Page 3 of 5		Print Time 01-Oct-2012 14:41		

**NVFEL Laboratory Test Data****PARTICULATE****Final Laboratory Test Results- Refer to VERIFY Reports for Official Data**

Test Number: 2012-0240-004

Vehicle ID: VW324 10220/13

<u>WEIGHING CHAMBER</u>	<u>Buoyancy</u>	<u>Operator</u>	<u>Chamber Temp</u>	<u>Dew Point</u>	<u>Barometer</u>	<u>Last Change in Status</u>	
Timestamp	Factor	(id)	(°F)	(°F)	(°Hg)	Status @ timestamp	
Pre-test	9/27/12 10:20	1.0011189	022298	72.9	49.5	29.28	NORM @ 09/27/12 00:11:40
Post-test	9/28/12 10:18	1.0011205	022298	71.1	49.6	29.22	NORM @ 09/27/12 21:49:31

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.22	29.22	29.22	
Avg Cell Temp (degF)	72.40	72.35	72.48	
Dew Point (degF)	51.08	51.21	51.46	
Specific Humidity (grains/lbm)	57.12	57.39	57.93	
NOx Corr Factor	0.9225	0.9236	0.9257	
Dilution Factor	16.22	28.46	20.61	
CFV Vmix (scf @68F)	2853.41	4871.63	2836.17	
Sample Volume A (scf @68F)	-3.769	-7.093	-4.082	
Sample Volume B (scf @68F)	8.979	15.327	8.942	
Sample Volume C (scf @68F)	8.947	15.249	8.886	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	4.719	7.828	4.582	
Total Vmix (scf @68F)	2867.56	4895.11	2849.92	
Phase Time (sec)	508.60	870.90	506.80	
Distance (miles)	3.586	3.844	3.586	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	35.6	34.2	37.8	
PSU Dil Air B (degC)	41.6	41.3	41.9	
PSU Dil Air C (degC)	39.1	38.1	39.5	
PSU Filter A (degC)	48.2	49.8	49.4	
PSU Filter B (degC)	50.9	53.6	49.8	
PSU Filter C (degC)	48.8	51.1	50.8	
PSU Dil Flow A (lpm)	15.0	15.0	15.0	
PSU Dil Flow B (lpm)	15.0	15.0	15.0	
PSU Dil Flow C (lpm)	15.0	15.0	15.1	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: "Giles, Michael (EEO)" [michael.giles@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;"Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; N=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;"Rodgers, William (EEO)" [William.Rodgers@vw.com]; Rodgers, William (EEO)" [William.Rodgers@vw.com]
Bcc: []
From: CN=DavidA Wright/OU=AA/O=USEPA/C=US
Sent: Tue 10/2/2012 5:42:22 PM
Subject: Re: VW Group - Request for Release of Beetle

I have no concerns with the steps you have described. I look forward to hearing what you learn once you have completed your diagnostics.

Regards,

David A. Wright
U.S. EPA - OTAQ
Compliance Division, Light-Duty Vehicle Center
2565 Plymouth Road
Ann Arbor, Michigan 48105
734 214-4467
e-mail:wright.davida@epa.gov

This e-mail and any attachment contain information which is private and confidential and is intended for the addressee only. If you are not an addressee, you are not authorized to read, copy or use this e-mail or any attachment. If you have received this e-mail in error, please destroy it and notify the sender by return mail.

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: DavidA Wright/AA/USEPA/US@EPA
Cc: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>, Jim Snyder/AA/USEPA/US@EPA, "Rodgers, William (EEO)" <William.Rodgers@vw.com>, Vincent Mazaitis/AA/USEPA/US@EPA
Date: 10/02/2012 01:10 PM
Subject: VW Group - Request for Release of Beetle

Hello David,

This note is in regards to the Beetle TDI vehicle (vehicle ID VW324 10220/13) which recently underwent confirmatory tests (FTP, Hwy) at EPA. We request release of the vehicle for evaluation and possible repair.

Prior to delivery to EPA, and due to a technical error, several gallons of gasoline (not diesel fuel) were added to the fuel tank, and the vehicle was subsequently driven. The mistake was recognized when the vehicle failed to re-start. After this incident, an attempt to correct the issue was made. At the time the vehicle was delivered, there was a brief discussion about this incident with Ben Haynes. To summarize, VW informed Ben of the incident and requested a discussion if there were problems during OBD checks prior to test.

Volkswagen is concerned that this mis-fueling incident may have caused damage to the test vehicle immediately prior to the test which, despite our attempts at recovery, could have negatively impacted the emissions results. We are therefore planning to evaluate the vehicle at our facility. If damage is found, we would like to repair the vehicle to the correct certification condition. Following this outcome, we would request that the vehicle be re-tested once repaired.

Please let us know if you have any concerns about the above steps.

Regards,
Mike

Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

To: Ball, Joel[ball.joel@epa.gov]; [Ex. 7]@arb.ca.gov [Ex. 7]@arb.ca.gov
Cc: Johnson, Stuart (EEO)[Stuart.Johnson@vw.com]
From: Glas, Tobias
Sent: Tue 12/3/2013 3:35:47 PM
Subject: Volkswagen IUVP programm

Dear gentleman,

the Volkswagen IUVP program for [Ex. 4 - CBI] is almost finished.

We are testing the last 2 missing cars for the [Ex. 4 - CBI] program in the next days.

For the [Ex. 4 - CBI] program we are procuring the last 2 cars right now. There was some delay because we had to wait until the cars have the required milcage.

Depending on when we will get the cars from the customer we will test them before Christmas or right at the beginning of next year.

I will sent you an Email when the program is finished.

Best regards

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

To: mike.hennard@vw.com[mike.hennard@vw.com]
Cc: Stuart.Johnson@vw.com[Stuart.Johnson@vw.com]
From: Ball, Joel
Sent: Thur 3/28/2013 9:06:02 PM
Subject: FW: Your EPA Inquiry - EPA-2010 recall report 2; ODI RESUME 2-17-2012; NHTSA Action
Number: PE10027; EPA420-B-09-016 APRIL 2009

Hi Mike,

I received the following inquiry from an individual who apparently still has a gen-1 coil in her vehicle and was told that she would need to pay a diagnostic charge before it could be replaced. I was under the impression that all gen-1 coils were being replaced on all vehicles under the latest campaign (although I did not see this engine on the last bulletin we received). Please let me know if this is not the case. If this vehicle is covered under the recall I don't think any diagnostic charge should apply.

Thanks,

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

Recipient
otag@epa.gov
UserWord
apple
Word
apple
comments
''ALSO VEHICLE-RECALLS@EPA.GOV NOT WORKING' 3/12/13 Could you pass it down the line. thanx

Concerning:
University Volkswagen Mazda,
5150 Ellison st NE,
Albuquerque, NM 87109

1-505-761-1900

In October 2009 Volkswagen address emissions problems by issuing EPA emissions service action 28F3 That replaced all

(O.E.M) GEN I COP COIL. My Vin [Ex. 6] has an (OEM-GEN I) and they wont replace it. Unless I PAY to diagnose

it. What can I do. Already had 26E5/R5 recalls with heat shield / fuel tank replaced. Also, recent recalls J1-28F2 P1-28F3 are of

much concern. They said no recall, should i ask for "VCS" designation or technical service bulletins, please help. I feel that they

are causing me to violate the (CAA). MY 2003 V6 2.8L GLX. I HAVE A FULL (internal use only) SERVICE HISTORY, and if I may

add what's aggravating is that they had it after the 2008 recalls in-house & couldn't just fix it then, they had they correct parts!

Thank you.

Ex. 6

Ex. 6

name

Ex. 6

org

USA

ssubject

CONCERNING: EPA-2010 recall report 2; ODI RESUME 2-17-2012; NHTSA Action Number: PE10027; EPA420-B-09-016 APRIL 2009

WARNING NOTICE

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Submitting script: /cgi-bin/mail.cgi

Submitting host: 66-87-97-189.pools.spcsdns.net (66.87.97.189)

Browser: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20100101

Firefox/16.0

Referred: <http://www.epa.gov/otaaq/oms-cmt.htm>

TSSMS: orcdizux

Mail to File: omsmail.txt

To: Bunker, Byron[bunker.byron@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Wed 3/6/2013 4:12:57 PM
Subject: Fuel Economy Testing Correlation

Hello Byron,

Hey, I just wanted to say thanks for the conversation we had concerning fuel economy testing. I've continued to think about it and wanted to make an additional point that maybe wasn't so clear during the discussion.

Ex. 4 - CBI

to the VW Group.

We are guessing the issue may be this **Ex. 4 - CBI** we discussed but we really do not know for sure. Maybe in the end **Ex. 4 - CBI** But we understand the point that you may want to retain the ability to **Ex. 4 - CBI** real world fuel economy.

Hope that helps if you have further internal discussions.

Thanks again,

Stuart

PS: I've asked for our latest status regarding **Ex. 4 - CBI**

To: Snyder, Jim[Snyder.Jim@epa.gov]; Ott, William[ott.william@epa.gov]; Dalton, Joel[Dalton.Joel@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Ball, Joel[ball.joel@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Anderson, Tom[Anderson.Tom@epa.gov]
From: Kata, Leonard (EEO)
Sent: Tue 11/19/2013 6:22:11 PM
Subject: RE: Volkswagen teleconference on BEV and PHEVs
e-Golf EPA.PDF

To all:

Attached, for your information, is an advance copy of the slide presentation for the e-Golf topic. I do not have the final version of the PHEV material yet, but I will provide it as soon as it is available.

Best regards,

Len

Leonard W. Kata

Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

-----Original Appointment-----

From: Snyder, Jim [<mailto:Snyder.Jim@epa.gov>]
Sent: Thursday, November 14, 2013 12:08 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Kata, Leonard (EEO)
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Subject: Volkswagen teleconference on BEV and PHEVs
When: Wednesday, November 20, 2013 9:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C34-ConfRoom/AA-OTQA-OFFICE

When: Wednesday, November 20, 2013 9:00 AM-10:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C34-ConfRoom/AA-OTQA-OFFICE

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*

For those interested. Phone conference with VW and Audi. Presentation on VW BEV and discuss Audi PHEV testing.

...A short while ago you had asked if Volkswagen had an interest in re-scheduling a meeting with EPA staff that was originally planned for October 7, 2013. This meeting was cancelled due to the government's partial shutdown. Although the original participants from the Volkswagen Group will not be in the U.S. to meet in person, we would appreciate an opportunity to discuss the topics via telephone conference. As a starting point, I propose that the call take place Tuesday, Nov. 19, 2013 at 9:00 a.m. The primary topics are:

- e-Golf Presentation
- PHEV Test Procedures

To: Snyder, Jim[Snyder.Jim@epa.gov]; Ott, William[ott.william@epa.gov]; Dalton, Joel[Dalton.Joel@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]; Good, David[good.david@epa.gov]; French, Roberts[french.roberts@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Ball, Joel[ball.joel@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Anderson, Tom[Anderson.Tom@epa.gov]
From: Kata, Leonard (EEO)
Sent: Wed 11/20/2013 11:37:48 AM
Subject: RE: Volkswagen teleconference on BEV and PHEVs
[EPA_PHEV.PDF](#)
[EPA Sample PHEV_correction.xls](#)

To all:

Attached is the presentation regarding PHEV Test Procedures for our meeting this morning. As mentioned to Jim Snyder, I will come to EPA with some extra copies. All others from the VW Group will be on the telephone.

Best regards,

Len

Leonard W. Kata

Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

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From: Snyder, Jim [<mailto:Snyder.Jim@epa.gov>]
Sent: Thursday, November 14, 2013 12:08 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Kata, Leonard (EEO)
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
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- e-Golf Presentation
- PHEV Test Procedures

From: Snyder, Jim
Required Attendees: Ott, William; Dalton, Joel; Wright, DavidA;
Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
End Date/Time: Wed 11/20/2013 3:30:00 PM

For those interested. Phone conference with VW and Audi. Presentation on VW BEV and discuss Audi PHEV testing.

.A short while ago you had asked if Volkswagen had an interest in re-scheduling a meeting with EPA staff that was originally planned for October 7, 2013. This meeting was cancelled due to the government's partial shutdown. Although the original participants from the Volkswagen Group will not be in the U.S. to meet in person, we would appreciate an opportunity to discuss the topics via telephone conference. As a starting point, I propose that the call take place Tuesday, Nov. 19, 2013 at 9:00 a.m. The primary topics are:

- * e-Golf Presentation
- * PHEV Test Procedures

From: Snyder, Jim
Required Attendees: Kata, Leonard (EEO); Wehrly, Linc; Ball, Joel; Ott, William; Dalton, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen/Audi Meeting with EPA
Start Date/Time: Mon 10/7/2013 1:30:00 PM
End Date/Time: Mon 10/7/2013 3:30:00 PM

Representatives from Volkswagen AG and Audi AG will be visiting the U.S. in early October 2013. We would like to take this opportunity to meet with you to discuss certification-related topics. The primary emission certification topic is the E-Golf preview for MY2015.

There may also be discussion regarding PHEV testing and calculations unless we have that at an earlier mtg.

To: Good, David[good.david@epa.gov]
From: Schmidt, Oliver (EEO)
Sent: Mon 12/23/2013 7:33:50 PM
Subject: Automatic reply: 2012 CAFE VW Model Year Report -Import Pass Car CAFE standard in VW letter (30.7mpg) disagrees with Verify (33.674)

Hello,

thank you for your mail.

Ex. 6

In urgent cases you can try to reach me on my cell.

Oliver Schmidt

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 12/23/2013 7:33:50 PM
Subject: Automatic reply: 2012 CAFE VW Model Year Report -Import Pass Car CAFE standard in VW letter (30.7mpg) disagrees with Verify (33.674)

Thanks for your mail.....

Ex. 6

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 12/18/2013 3:39:46 PM
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

Hi Dave;

I just made one more correction to the 1.8L Beetle with M5 transmission, index #111, to correct the adjusted highway and combined CO2 values, my error.

The other two indexes #112 and #113, 1.8L Beetle and 1.8L Beetle Convertible automatics, are the other new labels that need to go to the east coast.

Thanks, and if I don't talk to you again have a nice holiday and Happy New Year!

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, December 18, 2013 10:14 AM
To: Thomas, Richard (EEO)
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

Richard,

Here you go.

Remind me which are the new indexes----so that I can have them posted on Friday.

Dave

From: Thomas, Richard (EEO) [<mailto:Richard.Thomas@vw.com>]
Sent: Wednesday, December 18, 2013 7:17 AM
To: Good, David
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNT0

Thanks, Dave; did you send me something yesterday, or are you still unable to use your audit program by brand?

From: Good, David [<mailto:good.david@epa.gov>]
Sent: Tuesday, December 17, 2013 1:28 PM
To: Thomas, Richard (EEO)
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNT0

From: Thomas, Richard (EEO) [<mailto:Richard.Thomas@vw.com>]
Sent: Tuesday, December 17, 2013 1:23 PM
To: Good, David
Subject: new 2014 1.8L Beetle Label Indexes

Hi Dave;

I had to correct the labels I did today to select the correct regular fuel for the annual fuel cost and

five year savings. I believe I have them all covered now, indexes 111, 112 and 113. Let me know if anything is still not right or you see other errors or discrepancies.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Good, David[good.david@epa.gov]
Cc: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Tue 12/10/2013 1:50:23 PM
Subject: RE: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

Hi Dave;

I have taken care of this and both categories were set to final status yes. Oliver Schmidt is the contact name and he was also selected with this submittal.

If you have any questions, please let me know.

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Monday, December 09, 2013 3:50 PM
To: Thomas, Richard (EEO)
Cc: Kata, Leonard (EEO)
Subject: Re: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

Richard,

Re: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

I'm working on 2012 CAFE/GHG reports. Our management indicates that I have to send out EPA final 2012 CAFE/GHG letters before Dec 20, 2013.

When you get a chance, please sent the Mfr Final Status to “yes” for both your car and truck CAFE/GHG reports. Attached are the latest Verify CAFE/GHG car & truck reports for your convenience.

While you are setting the status, please double check that the correct name and contact information appears in the address file for the CAFE/GHG letter. It will be in a field (pull-down menu) when you update the mfr final CAFE/GHG status (for each car or truck CAFE/GHG compliance category). If the correct name and contact information doesn’t appear in the pull down menu, then you will have to enter it (or correct it) in the “Maintain Manufacturer Information” module (CAFE Address file) of Verify. Normally, the EPA CAFE/GHG letter should be addressed to the person who sent EPA the 2012 CAFE & GHG model year report(s) on March 31, 2013 or so.

Thanks

To: Good, David[good.david@epa.gov]
From: Harris, Dale (EEO)
Sent: Wed 10/30/2013 2:37:21 PM
Subject: RE: 2015MY GHG Pre-Model Template

Thanks!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, October 30, 2013 10:36 AM
To: Harris, Dale (EEO)
Cc: Kata, Leonard (EEO); French, Roberts; Anderson, Tom
Subject: RE: 2015MY GHG Pre-Model Template

Dale,

You can go ahead and use the template on the web for your 2015MY Pre-Model Year Report.

You should modify it as needed to agree with the applicable regulations from the 2017 GHG rule, etc. For example, if VW uses the N2O and CH4 debit provisions outlined in 86.1818-12(f)(3) you should modify the credit provisions of the template accordingly. Also, if you run the AC17 test procedure instead of the AC idle test procedure, you'll have to modify the template (or put in a dummy value for the AC idle test).

Those are the only two things I can think of which need to be updated (off the top of my head). Please let me know if you see any other areas where the templates need to be updated.

Dave

From: Harris, Dale (EEO) [<mailto:Dale.Harris@vw.com>]
Sent: Wednesday, October 30, 2013 8:33 AM
To: Good, David
Cc: Kata, Leonard (EEO)
Subject: GHG Pre-Model Template

Dave

I am presently preparing the MY2015 Pre-Model GHG Report for submission by year end. During the process I noticed an expiration date on the GHG MS Excel based template that you provided several years ago. The expiration text has been pasted below.

OMB Control Number 2060-0644
Expires 10-31-2013

Based upon the expiration date, is it appropriate to use this template for the MY 2015 GHG Pre-Model Report as I have in the past? Is there another template available?? Please advise.
Thanks!!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

To: Good, David[good.david@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]; Olechiw, Michael[olechiw.michael@epa.gov]; Fernandez, Antonio[fernandez.antonio@epa.gov]; Julia Rege[jrege@globalautomakers.org]; Giedrius Ambrozaitis[gambrozaitis@autoalliance.org]; sdouglas@autoalliance.org[sdouglas@autoalliance.org]; Robert Maxwell[remaxwell@comcast.net]
Cc: Nam, Ed[nam.ed@epa.gov]; Mitcham, Arvon[mitcham.arvon@epa.gov]; Butler, Aron[butler.aron@epa.gov]; Laroo, Chris[laroo.chris@epa.gov]; Machiele, Paul[machiele.paul@epa.gov]; Sargeant, Kathryn[sargeant.kathryn@epa.gov]; Julie Becker[JBECKER@autoalliance.org]; Tamborra, Nick (EEO)[Nick.Tamborra@vw.com]; Susan Conti[sconti@autoalliance.org]
From: Passavant, Glenn
Sent: Tue 9/24/2013 4:37:59 PM
Subject: R-factor with Alliance and GAM
Summary of EPA Staff Approach for EDV &.pptx

All

Confirmed for tomorrow at 1 PM in Ann Arbor. Call-in number is **Ex. 6** code **Ex. 6**
Ex. 6 Latest briefing material is attached. Giedrius and Julia, please forward on to your members

Glenn W. Passavant

US EPA/ASD

Acting Director

Data & Testing Center

Ann Arbor, MI 48105

734-214-4408(office)

517-902-7565(cell)

To: (Garett.Horton@vw.com)[Garett.Horton@vw.com]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Valencia, Thomas@ARB[tvalenci@arb.ca.gov]; O'Cain, John@ARB[jocain@arb.ca.gov]; Ball, Joel[ball.joel@epa.gov]; Good, David[good.david@epa.gov]
From: Pidgeon, Bill
Sent: Tue 9/10/2013 7:10:36 PM
Subject: FW: In-Use Verification Program - Waiver for Evaporative Testing - DRAFT RESPONSE - COMMENTS WELCOME

Hi Garrett,

I am the new EPA IUVP coordinator and apologize for the delayed response. I wasn't aware of your request until recently, and I have been using considerable vacation time.

I have consulted with CARB and my coworkers at EPA and we are all in agreement. We are unable to grant your request for a waiver from evaporative testing at this time. EPA has received requests for IUVP waivers based on good in-use emissions performance in the past, but we have not yet approved any. Until EPA can establish a basis for defining "good in-use emissions performance" that can be applied equitably to all manufacturers, we are not in a position to grant waivers based on in-use performance.

Additionally, for evaporative emissions, only one vehicle is tested from each evaporative family, so granting a waiver based on past performance entails no monitoring of future performance. EPA continues to allow limited exemptions for hard to procure vehicles. We are very aware that there is a strong desire by many manufacturers for EPA to establish a definition for "good in-use emissions performance" and begin the allowance of some limited exemptions. Although we continue to be very busy, it is our desire to be able to develop guidance that we can share with industry that will outline how we will handle IUVP exemptions for good in-use performance within the next six or so months.

Best wishes,

Bill

William M. Pidgeon
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Compliance Division, N69
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Garett Horton

Engineering Analyst

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United States of America

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Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

From: Good, David

Sent: Wednesday, August 21, 2013 2:05 PM

To: Pidgeon, Bill

Subject: FW: In-Use Verification Program - Waiver for Evaporative Testing

Bill,

Here you go.

Dave

From: Horton, Garrett [<mailto:Garrett.Horton@vw.com>]
Sent: Tuesday, August 20, 2013 11:57 AM
To: Good, David
Subject: RE: In-Use Verification Program - Waiver for Evaporative Testing

Good afternoon David,

Do you happen to have any updates on this request?

Regards,

Garett

From: Horton, Garrett
Sent: Wednesday, July 31, 2013 5:10 PM
To: 'good.david@epa.gov'
Cc: Glas, Tobias; Johnson, Stuart (EEO); Schmidt, Oliver (EEO)
Subject: In-Use Verification Program - Waiver for Evaporative Testing

Hello Mr. Good,

I am Garrett Horton with Volkswagen Group of America, and I work together with Mr. Tobias Glas in the In-Use Verification Program.

Currently we are nearing the end of our MY2008 High Mileage testing program and are planning to start the MY2009 High Mileage program in the next few months. During planning we have identified a possible opportunity for us to reduce the amount of evaporative testing by the reference below:

§ 86.1852-01 Waivers for good in-use emission performance.

The Administrator may waive requirements of this subpart relating to development of emission-related information or test data if the Administrator determines with confidence that the in-use emission test verification data required in § 86.1845-01 are below the applicable emission standards for an appropriate period of time, and that such performance is likely to continue in subsequent model years.

(b) Any waiver granted under paragraph (a) of this section will be granted only if the Administrator determines that the waived requirement is not needed to assure continued emission compliance and the Administrator will have sufficient testing and other information in order to make certification decisions.

(c) Any waiver granted under paragraph (a) of this section would be limited in duration to a period of one model year, unless extended by the Administrator as a result of continued demonstrations of good in-use emission performance.

(d) The Administrator reserves the right to deny or revoke a waiver which may have been granted if he/she determines that the manufacturer no longer qualifies for the waiver.

Attached I have included a short overview of the 9 evaporative families identified and the test results we have received throughout the various years of testing.

With this, we would like to request a waiver for ORVR and SHED testing for the 9 evaporative families listed below for our MY2009 High Mileage In-Use Verification Program. As you can see, we have results dating all the way back to MY2003 which we confidently feel shows sufficient data that these evaporative families will continue to meet compliance requirements throughout the vehicle's full useful life.

●□□□□□□□ 9**XR0110235

- [redacted] 9**XR0110236
- [redacted] 9**XR0110237
- [redacted] 9**XR0110238
- [redacted] 9**XR0125246
- [redacted] 9**XR0170273
- [redacted] 9**XR0230276
- [redacted] 9**XR0140282
- [redacted] 9**XR0170358

If you would like to discuss this further, feel free to contact me.

Regards,

Garett Horton

Engineering Analyst

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

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United States of America

Phone: (248) 754-4231

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Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 8/29/2013 8:32:38 PM
Subject: Automatic reply: 2014 FE Guide - Errors in EPA's database as of August 28, 2013

Thanks for your mail.....I am out of the until office until September 6th.

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 8/2/2013 4:50:36 PM
Subject: 2014 Fuel Economy

Thanks Dave, I listened to your voice mail and no need to send the complete file. I'll be back on Monday the 12th. I'll have my laptop with me so if you come across anything that needs immediate attention just send an email.

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Boundy, Robert Gary (boundyrg@ornl.gov)[boundyrg@ornl.gov]
Cc: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 8/1/2013 1:10:12 PM
Subject: 2014 Bugatti Veyron Image
[14 Bugatti Veyron.bmp](#)

Hi Bob;

Here is a photo image of the 2014 Bugatti Veyron that can be used for the fuel economy guide. Let me know if it will work and you can format it properly for the web site. If you have any questions, please contact me.

Thanks.

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com



To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Good, David[good.david@epa.gov]; Stump, Barbara[Stump.Barbara@epa.gov]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Sohacki, Lynn[sohacki.lynn@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Fri 7/26/2013 1:21:30 PM
Subject: Corrected Test Group Name for 2014 Jetta Hybrid
[2014 Jetta Hybrid TG correction form.pdf](#)

Hi Jim;

Please find attached the EPA Certification Fee correction form (if needed) to correct the test group name of our already certified 2014 Jetta Hybrid. Bill has sent the corrected application today and has made the changes to the CSI information and has requested the issuance of a certificate of conformity, if this is the way in which you choose to handle this correction. Please make contact with Bill, when you are back, regarding how we can correct the name. We might have to withdraw the original test group and request a new certificate. Lynn was going to contact you also, with regard to this correction.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com



U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
Correction Form

Date: 07/26/2013

Manufacturer Name: Volkswagen Group of America, Inc.

Family Name: EVWXV01.4PHE

Original Payment Date: 06/13/2013

Original Amount Paid: \$29,848.00

Revised Family Name: EVWXV01.4HEV

Company Representative:

Name: Richard E Thomas Phone: 248 754 4213

Email Address: Richard.Thomas@VW.com Fax: (optional)

Reason for Correction:

- ☒ Typographical error in original family or test group name.
- ☐ Overpayment for original family name, please apply the overpayment to the revised family name. Write the overpayment amount in the comments box.
- ☐ Other (explain in comments box):

Comments:

accidentally did not change the last three characters of the test group name from the previous model year test group

Submission:

- (1) Forms may be filled out and submitted online at www.Pay.gov.
- (2) Forms may be submitted as email attachments to Fees@epa.gov
- (3) Forms may be submitted by surface mail to:

Environmental Protection Agency- NVFEL
Fees Team
Compliance Division
2000 Traverwood
Ann Arbor, Michigan 48105

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.